3638

PVM-1220

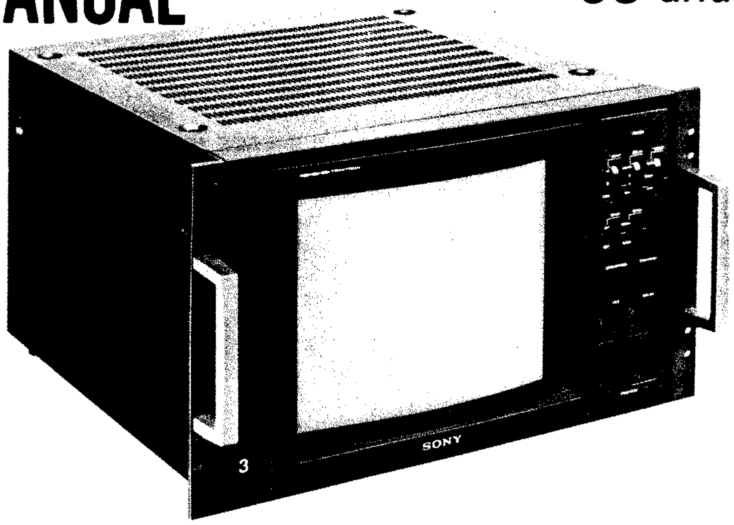
SERVICE MANUAL

US and Canadian Model

Chassis No. SCC-436A-A

REVISED

Discard PVM-1220 SERVICE MANUAL (No.9-963-016-01), SUPPLEMENT-1 (No.9-963-016-81) previously issued.



June, 1983

Also refer to "ADJUSTMENT MANUAL".

SPECIFICATIONS

Color system	NTSC color system
Picture tube	Trinitron tube 12-inch picture measured diagonally 90 degree deflection
Video input	noncomposite : 0.7 V (p-p), unbalanced Composite : 0.5 - 2.0 V (p-p), sync negative
Sync input	1.0 - 8.0 V (p-p), nominally 4.0 V (p-p) negative
Video/sync input impedance	High impedance for loop-through ; 75Ω terminated
Color temperature	6500°K + 8MPCD
Resolution	500 TV lines
Power requirements	120 V ac, 60 Hz
Power consumption	150 W (max.) 100 W (average)
Dimensions	480 × 284 × 512 mm (w/h/d) (19 × 11 1/4 × 20 1/4 inches)
Weight	Approx. 25 kg (55 lb 2 oz)
Supplied accessories	Number plates (5) 4-pin connectors (2) Screwdriver (1)

Design and specifications subject to change without notice.

TRINITRON®
COLOR VIDEO MONITOR
SONY®

MICROFILM

MON

3638

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
   Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

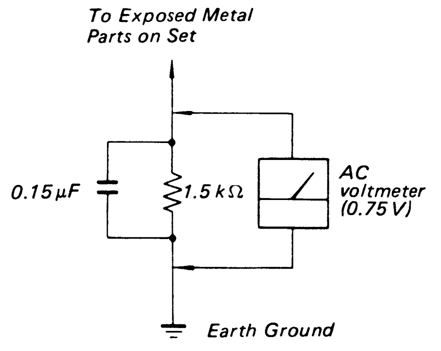


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

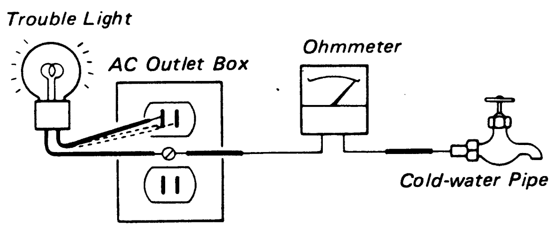
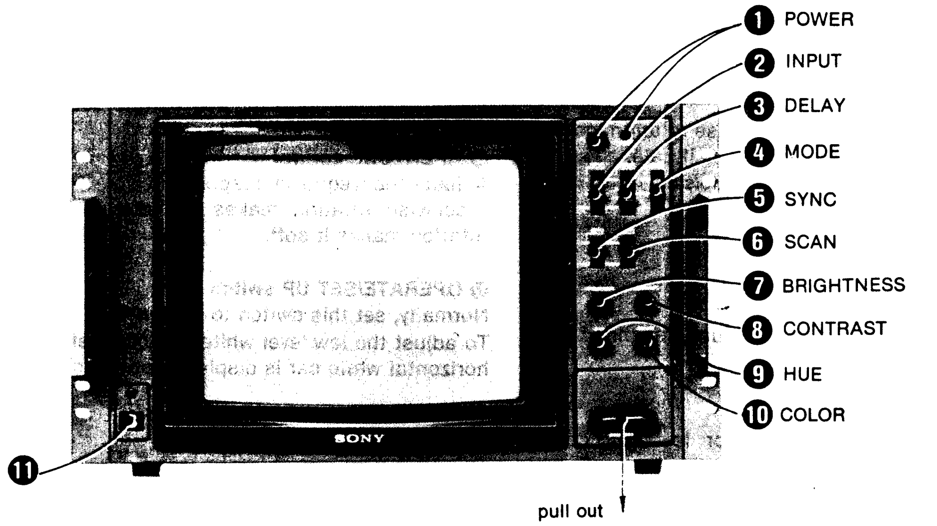
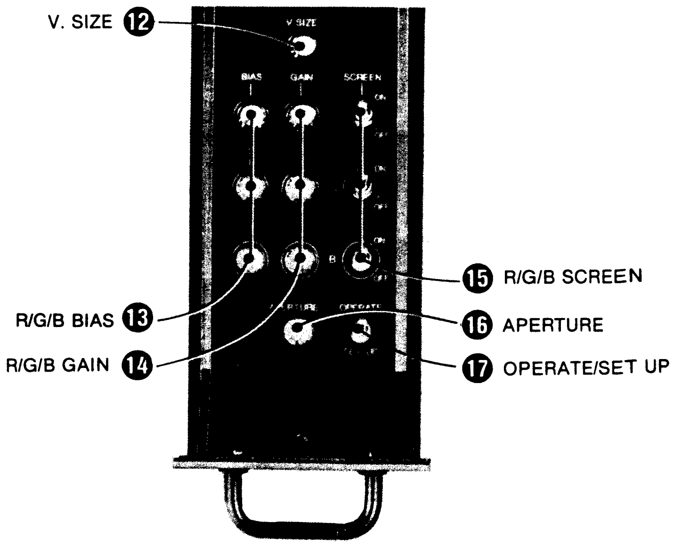


Fig. B. Checking for earth ground.

SECTION 1
GENERAL

1-1. LOCATION AND FUNCTION OF CONTROLS AND CONNECTORS





① POWER switch and pilot lamp
To turn the monitor on, depress the POWER switch; the associated pilot lamp will light. To turn the monitor off, press the button again.

② INPUT selector
A: for monitoring the picture connected to the VIDEO A IN connector.
B: for monitoring the picture connected to the VIDEO B IN connector.
TEST: for monitoring the picture connected to the TEST connector.

③ DELAY selector
NORMAL: for normal use.
H: picture is shifted horizontally, and the horizontal sync is displayed in left approximately one-fourth of screen.
Picture brightness is automatically increased.
V: picture is shifted vertically, and the vertical sync is displayed near the center of screen. Picture is expanded by approximately 5 times, unless the underscan is activated.
Picture brightness is automatically increased.
H/V: picture is shifted horizontally and vertically (cross-pulse).
Picture is expanded by approximately 5 times, unless the underscan is acticated.
Picture brightness is automatically increased.

④ MODE selector
AUTO: the presence of burst activates the color circuits; absence of burst deactivates color circuits.
COLOR: color circuits are activated regardless of the presence or absence of burst.
B/W: color circuits are deactivated; the picture will be displayed in black and white.

⑤ SYNC select switch
EXT: when an external pulse is supplied from an external sync generator, with either composite or non-composite video signal.
INT: when composite video is supplied without external sync.

⑥ SCAN select switch
NORMAL: for normal scanning.
UNDER: for underscanning. The display size is reduced by about 10%. At this position, vertical sync expansion is cancelled.

⑦ BRIGHTNESS control*
Adjusts the picture brightness.

⑧ CONTRAST control*
Adjusts the picture contrast.

⑨ HUE control*
Adjust this control for most natural skin tones. Clockwise rotation makes the skin tones greenish; counterclockwise rotation makes them purplish.

⑩ COLOR control*
Adjusts the color intensity of the picture. Clockwise rotation makes the picture vivid; counterclockwise rotation makes it pale.
*The BRIGHTNESS, CONTRAST, HUE and COLOR controls are recommended to be set nearly at their center positions normally.

⑪ Tally lamp

⑫ V. SIZE (vertical size) control
Adjusts the picture height gains in the normal or underscanned picture respectively.

⑬ R/G/B BIAS (red/green/blue bias) controls
These controls provide screen adjustment for low-light color temperature.

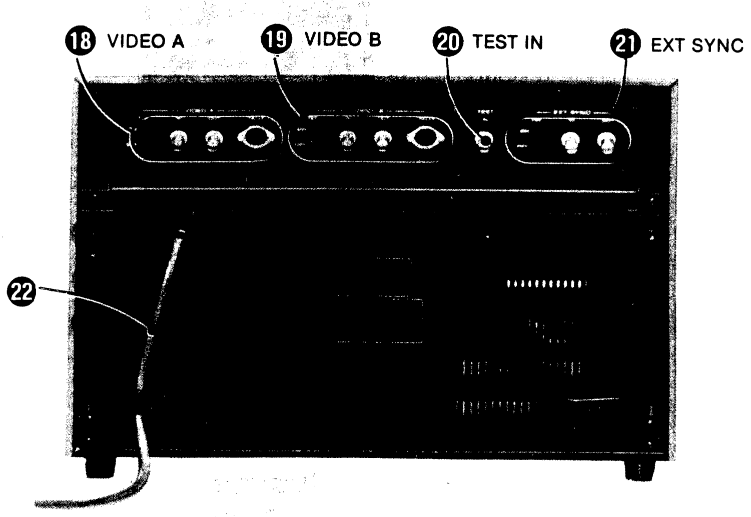
⑭ R/G/B GAIN (red/green/blue gain) controls
These controls provide screen adjustment for high-light color temperature.

⑮ R/G/B SCREEN (red/green/blue screen) switches
These switches allow the appropriate beam to be turned on or off.

⑯ APERTURE control
Adjusts the frequency response.
Clockwise rotation makes the picture sharp; counterclockwise rotation makes it soft.

⑰ OPERATE/SET UP switch
Normally, set this switch to OPERATE.
To adjust the low-level white balance, set this switch to SET UP. A horizontal white bar is displayed on the screen.

rear



⑱ VIDEO A ⑲ VIDEO B
IN connectors (BNC)
Connect to the video output of a video tape recorder or another monitor (for loop through connection), or to a color camera.
OUT connectors (BNC)
Connect the video input of another monitor or a video tape recorder.
75Ω termination switches
When the monitor is used singly, or is the last of looped chain, set the switch to ON. When another monitor is connected to the OUT connector, set the switch to OFF.
TALLY connectors
Connect to the tally output of the video console, special-effects generator, etc. The tally lamp at the front will be turned on or off by the connected console or special-effects generator.

⑳ TEST IN connector (BNC)
Connect the test signal.

㉑ EXT SYNC (external sync)
IN connector (BNC)
Connect an external sync generator.
OUT connector (BNC)
Supplies the external sync signal from the external sync generator connected to the EXT SYNC IN connector.
75Ω termination switch
When an equipment is connected to the EXT SYNC OUT connector, set the switch to OFF. When not connected set to ON.

㉒ AC power cord

1-2. SET UP

Scan Selection
Normal scanning or underscanning is achieved by the proper selection of the SCAN switch. Underscanning reduces display size by about 10%.
Delayed scanning is accomplished by the setting of the DELAY selector. When scanning is delayed vertically, horizontally or vertically and horizontally (cross-pulse), picture brightness is simultaneously increased for easier observation. Vertical scanning is expanded by approximately 5 times to permit close inspection of the vertical interval.

White balance
❶ Connect a monoscope test signal and select the appropriate input.
❷ Turn on all R, G, B SCREEN switches.
❸ Set the BRIGHTNESS, CONTRAST, HUE and COLOR controls to mechanical center.
❹ Adjust all R, G, B GAIN and BIAS controls to mechanical center with a screwdriver.
❺ To adjust low-level white balance, set the OPERATE/SET UP switch to SET UP to display a horizontal line on the screen.
❻ Adjust the R, G, B BIAS controls to obtain optimum white balance (6500°K + 8MPCD) at 1NIT.
❼ To adjust high-level white balance, set the OPERATE/SET UP switch to OPERATE.
❽ Set the G GAIN control to the mechanical center.
❾ Observe the white portion of the screen and adjust the R, B GAIN controls for optimum white balance (6500°K + 8MPCD).

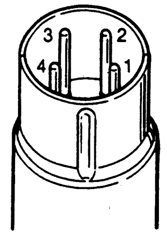
Confirm that optimum white is obtained at low-level to achieve proper tracking.

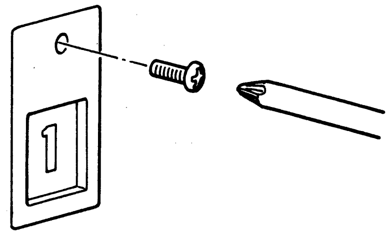
Repeat steps ❺ - ❻ if necessary.

Tally light
To utilize the tally-light feature of this monitor, connect the TALLY connectors of the monitor to a console, special-effects generator, etc. with the No. 1 and 4 pins short-circuited. The tally lamp at the front is interlocked by the INPUT selector and will be turned on or off by the console or special-effects generator.

Remove the screw, replace the plastic number plate supplied and fasten with the original screw.

Pin connections
1 . . . Hot
4 . . . Ground

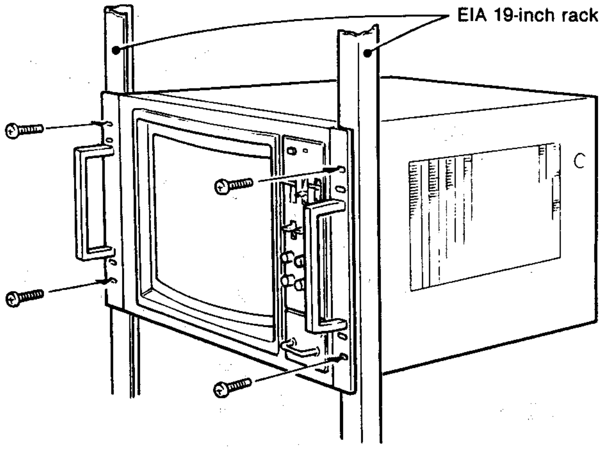




1-3. INSTALLATION

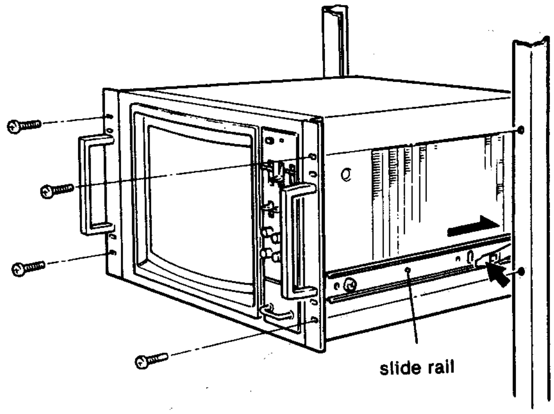
Be sure that the ac power cord is disconnected from the AC outlet.

RACK MOUNTING



Mount the monitor to the 19-inch EIA standard rack and secure with four machine screws.

You can mount the monitor to the rack using the optional SLR-100 slide rail, too. For details, reter to the instruction manual of the SLR-100.

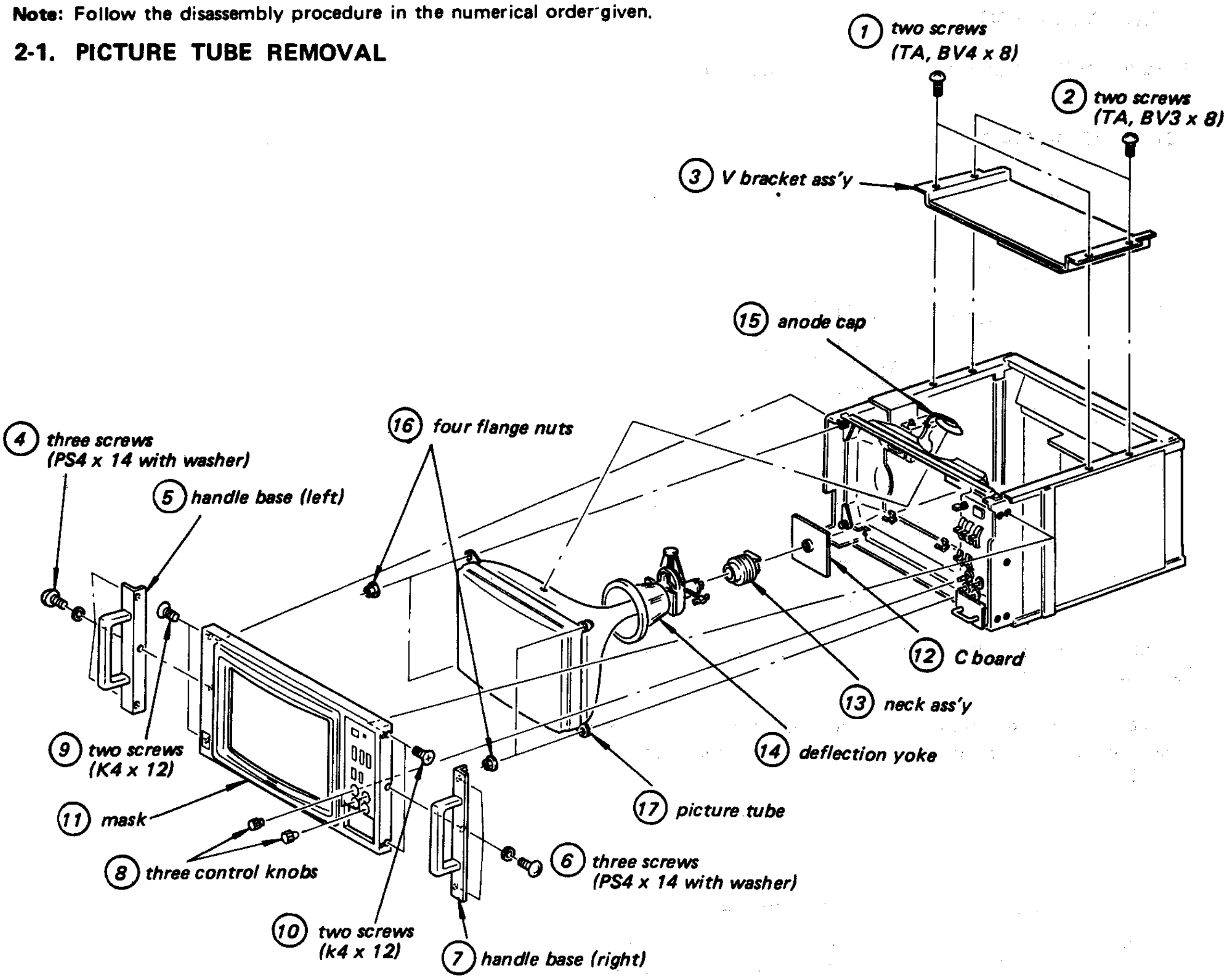


Length of the fully extended rails is approximately 520 mm ($20^1/_2$ inches).

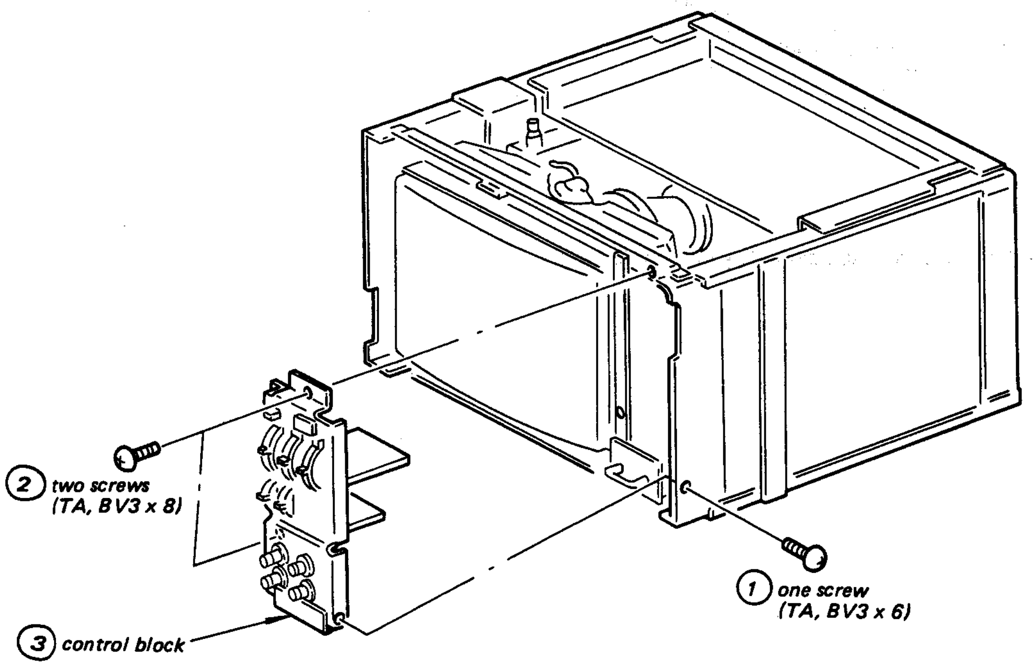
SECTION 2
DISASSEMBLY (AND REPLACEMENT)

Note: Follow the disassembly procedure in the numerical order given.

2-1. PICTURE TUBE REMOVAL

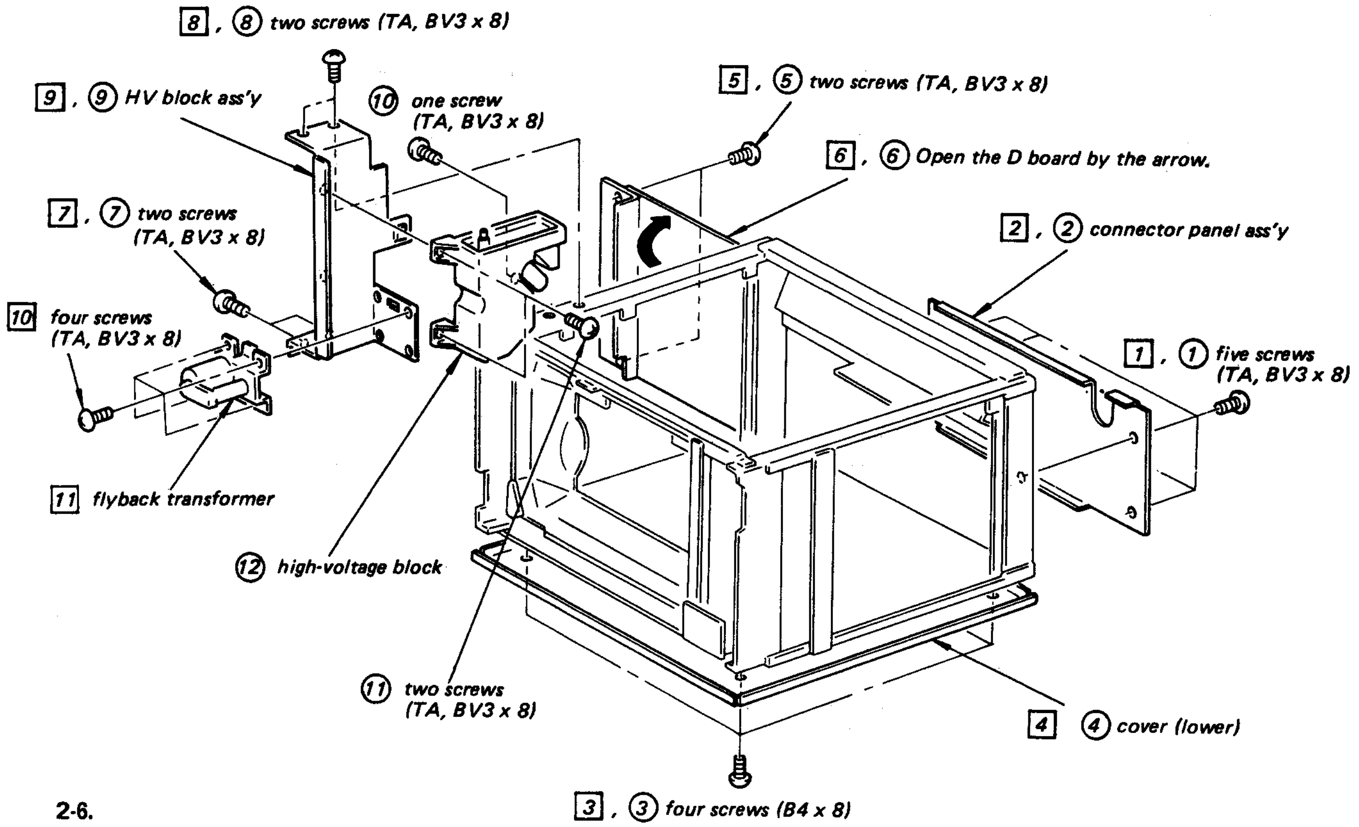

① two screws (TA, BV4 x 8)
② two screws (TA, BV3 x 8)
③ V bracket ass'y
⑮ anode cap
④ three screws (PS4 x 14 with washer)
⑯ four flange nuts
⑤ handle base (left)
⑫ C board
⑬ neck ass'y
⑨ two screws (K4 x 12)
⑭ deflection yoke
⑪ mask
⑰ picture tube
⑧ three control knobs
⑥ three screws (PS4 x 14 with washer)
⑩ two screws (k4 x 12)
⑦ handle base (right)

2-2. CONTROL BLOCK REMOVAL


② two screws (TA, BV3 x 8)
① one screw (TA, BV3 x 6)
③ control block

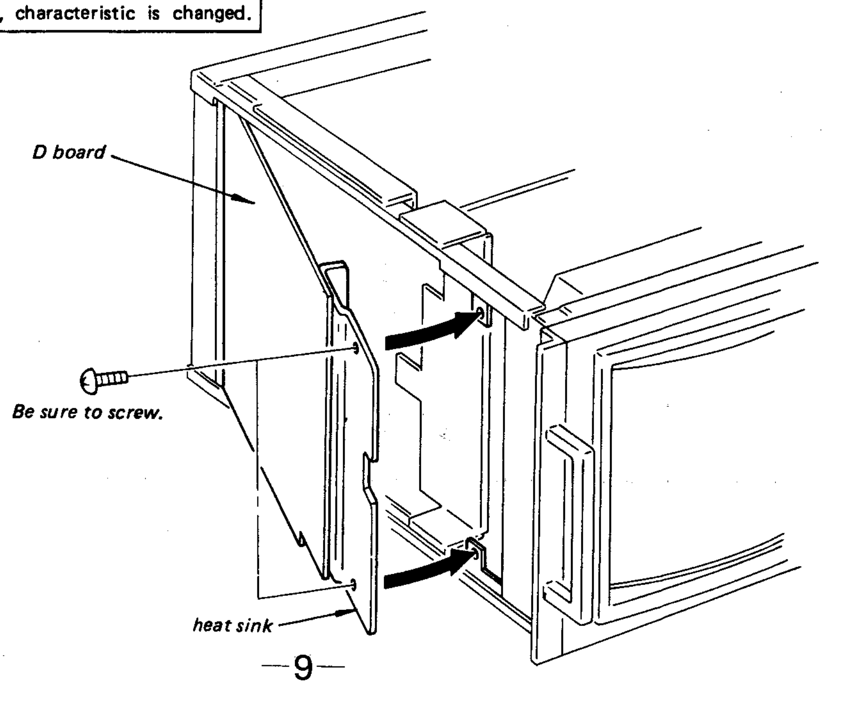
2-5. • HIGH-VOLTAGE BLOCK • FLYBACK TRANSFORMER } REMOVAL

Note: High-voltage block: Remove the parts indicated by ○ in numerical order (① – ⑫).
Flyback transformer: Remove the parts indicated by □ in numerical order ([1] – [11]).

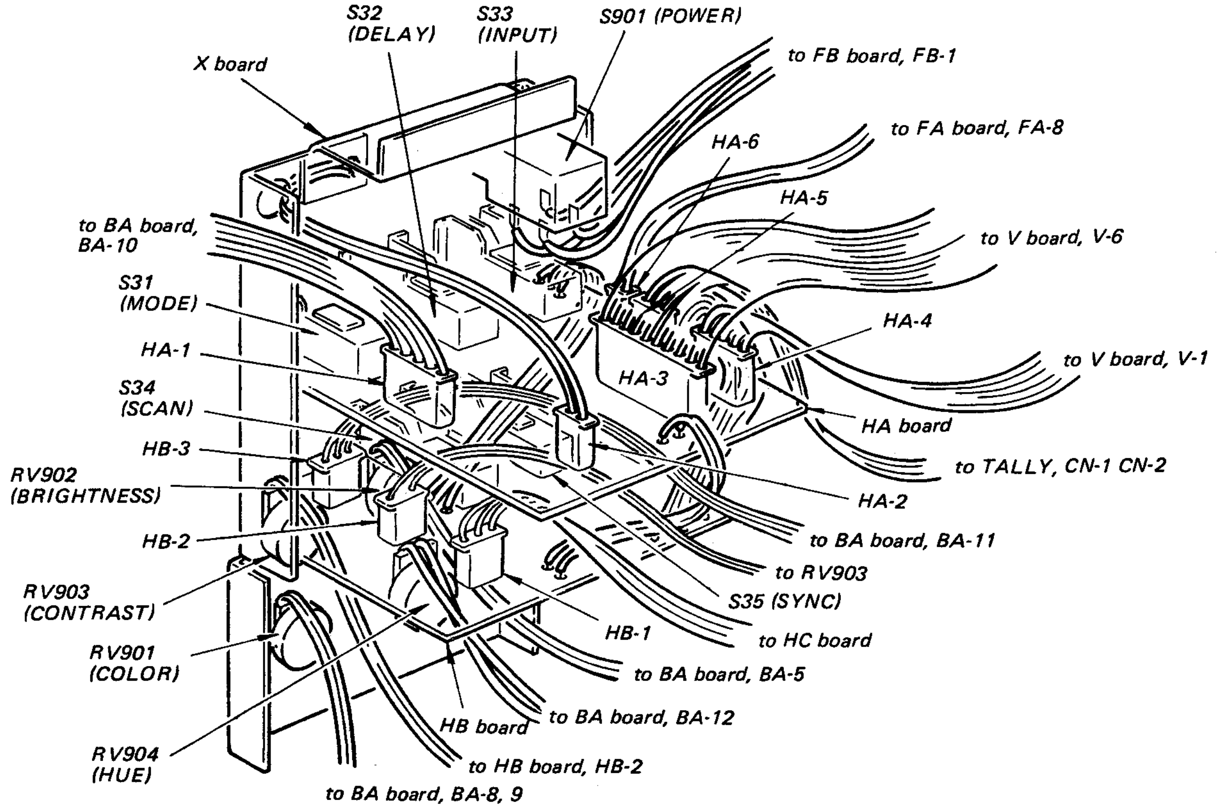

[8], ⑧ two screws (TA, BV3 x 8)
[9], ⑨ HV block ass'y
⑩ one screw (TA, BV3 x 8)
[5], ⑤ two screws (TA, BV3 x 8)
[6], ⑥ Open the D board by the arrow.
[7], ⑦ two screws (TA, BV3 x 8)
[2], ② connector panel ass'y
[10] four screws (TA, BV3 x 8)
[1], ① five screws (TA, BV3 x 8)
[11] flyback transformer
⑫ high-voltage block
⑪ two screws (TA, BV3 x 8)
[4] ④ cover (lower)
[3], ③ four screws (B4 x 8)

2-6.

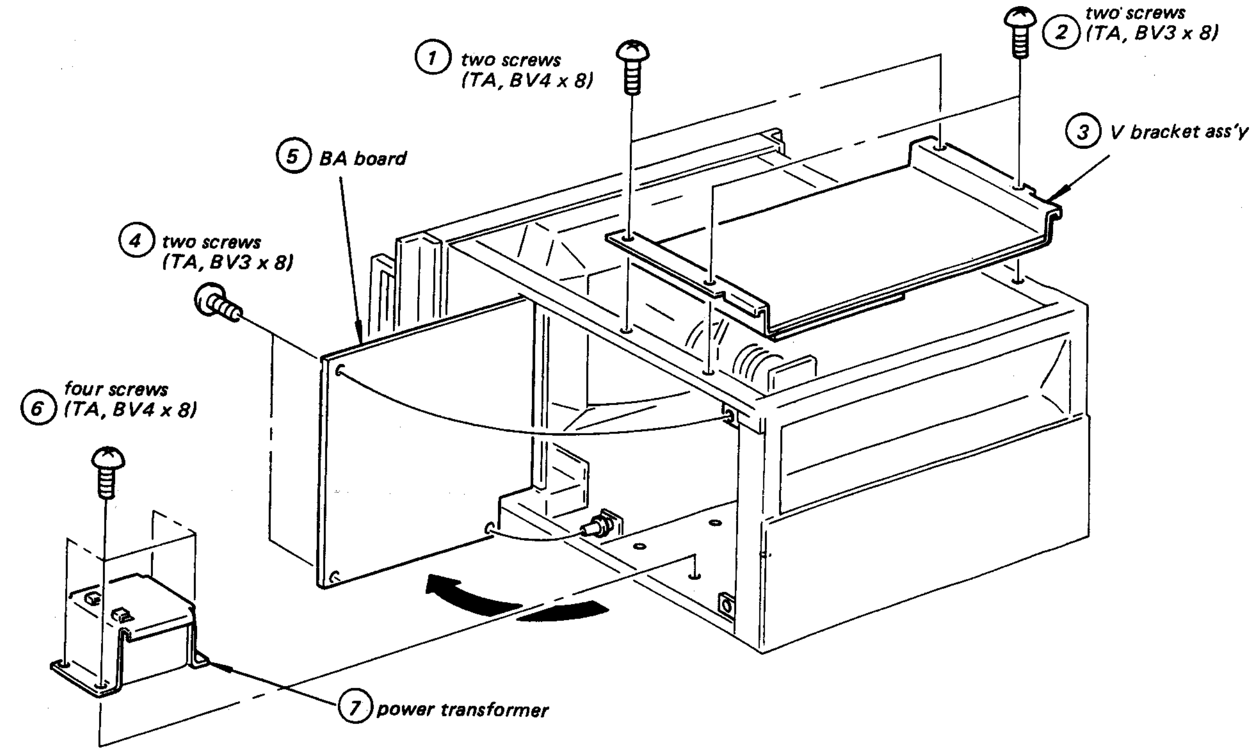
CAUTION
Be sure to perform that heat sink of D board is screwed to chassis before power switch is turned on. If not, earth roop of deflection circuit is changed, characteristic is changed.


D board
Be sure to screw.
heat sink

2-3. WIRING DIAGRAM ON CONTROL PANEL


S32 (DELAY)
S33 (INPUT)
S901 (POWER)
X board
to FB board, FB-1
to FA board, FA-8
HA-6
HA-5
to BA board, BA-10
to V board, V-6
S31 (MODE)
HA-4
HA-1
HA-3
to V board, V-1
S34 (SCAN)
HA board
HB-3
to TALLY, CN-1 CN-2
RV902 (BRIGHTNESS)
HA-2
HB-2
to BA board, BA-11
to RV903
RV903 (CONTRAST)
S35 (SYNC)
HB-1
to HC board
RV901 (COLOR)
to BA board, BA-5
HB board
to BA board, BA-12
RV904 (HUE)
to HB board, HB-2
to BA board, BA-8, 9

2-4. POWER TRANSFORMER REMOVAL


① two screws (TA, BV4 x 8)
② two screws (TA, BV3 x 8)
③ V bracket ass'y
⑤ BA board
④ two screws (TA, BV3 x 8)
⑥ four screws (TA, BV4 x 8)
⑦ power transformer

SECTION 3
SAFETY RELATED ADJUSTMENT

Note:

(1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Dual-trace oscilloscope
3. Color-bar/pattern generator
4. Video tuner SONY Model "VTU-200" or equivalent
5. Digital multimeter
6. High tension meter.
7. High tension meter.

(2) INPUT SIGNAL

When making these adjustments, feed a crosshatch, color-bar or monoscope pattern, signal to VIDEO IN/OUT connector through video tuner.

(3) CONTROL AND SWITCH SETTINGS

Controls and switches should set as follows when making adjustments unless otherwise noted.

CONTR control }
BRT control } . . Set for best picture
COLOR control }
V.HOLD control . . Set for stable picture
MODE switch . . . AUTO
SCAN switch . . . . NORMAL

3-1. FA BOARD ADJUSTMENT

☒ R616 Adjustment
(+95 V Adjustment)

When replacing the following components, make this adjustment.

R613~R617, D615, Q611, RV610, TH610
(Identified by ◪ mark)

1. *Adjust the variable autotransformer on the AC primary side until the reading of the digital multimeter (A) shows 125 V DC.*
2. *Turn RV610 fully clockwise.*
3. *Mount a resistor for R616 after selecting a suitable one from the following types so that the reading of the digital multimeter (B) falls between 96 and 100 V.*

   Note: *Make selection starting with the one with the largest resistance value.*
4. *Turn RV610 and adjust till the reading of the digital multimeter (B) showns 95 V ±0.5 V DC.*

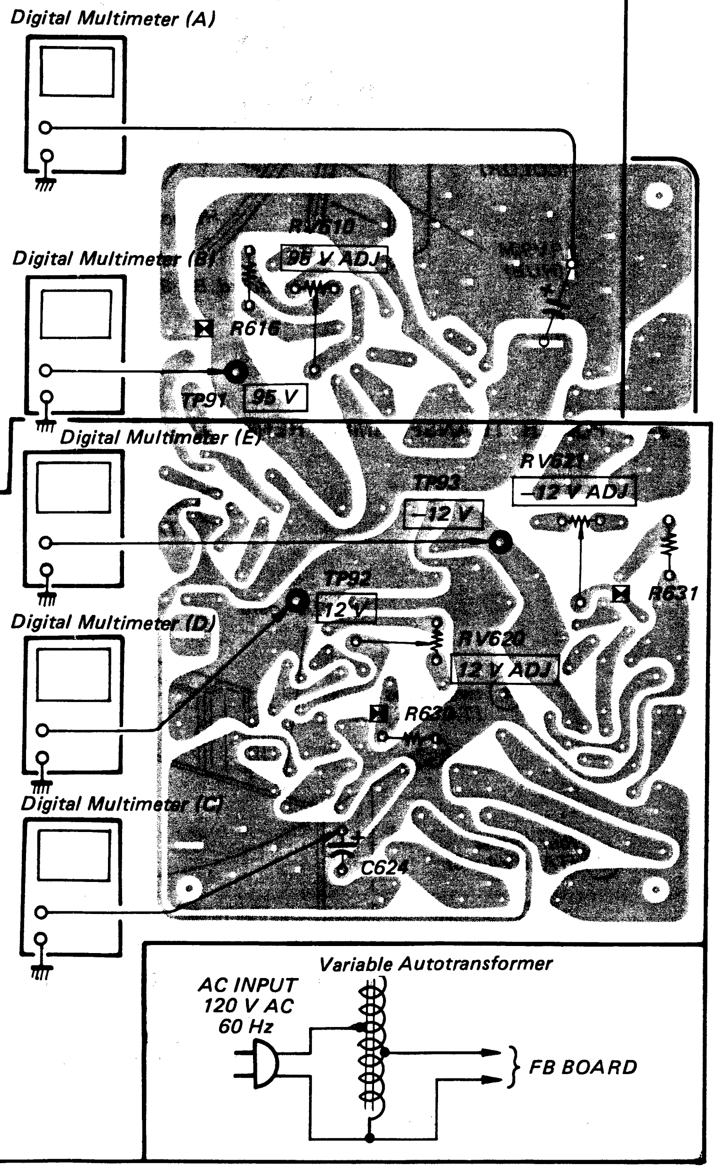
☒ R630, ☒ 631 Adjustment
(±12 V Adjustment)

When replacing the following components, make this adjustment.

R622~R624, R627~R631, R633, R634,
D624, D625, Q625~Q627, RV620, RV621
(Identified by ◪ mark)

1. *Check that the reading of the digital multimeter (C) is within a range of 17 ±0.5 V DC. Adjust the variable autotransformer if the reading is outside this range.*
2. *Turn RV620 and RV621 fully clockwise.*
3. *Select appropriate resistors from the following types for R630 so that the digital multimeter (D) falls inside +12.1 V~+12.5 V and for R631 to attain −12.1 V~−12.5 V on the digital multimeter (E).*

   Note: *Make selection starting with the one with the largest resistance value.*
4. *Turn RV620 till the digital multimeter (D) is adjusted to +12 V ±0.07 V DC.*
5. *Turn RV621 till the digital multimeter (E) is adjusted to −12 V ±0.07 V DC.*



3-2. D BOARD ADJUSTMENT

☒ R883, R884 Adjustment

When replacing the following components, make this adjustment.

R881~R887, R895, R896, D840, D841, D816, D890, D891, Q806, Q828, C820, C865, T911
(Identified by ◪ mark)

1. *Connect the positive lead of the high tension meter to the spring of HV Cap, and the negative lead to the braided wire connected to the picture tube earth spring.*
2. *Remove D813, D814. And after adjustment, mount these parts again.*
3. *Power switch on. Adjust regulater +95 V, ±12 V circuit so that the maximum voltage values.*
4. *Turn the variable resistor RV801, confirm that the hold down circuit operates when the reading of the high tension meter is 24 kV $^{+0.2}_{-1.0}$ (when digital multimeter is used: 12.0 V $^{+0.1}_{-0.5}$).*
5. *If step 1 to 4 are not satisfied, select the resistance value of R883, R884 and repeat above steps.*

Note: *When digital multimeter is used instead of high tension meter, the voltage value between pin No. 6 of IC801 and pin No. 3 of D-1 connector should be adjusted so that above range. In this time, connect electrolytic capacitor (4.7 μF/16 V) between D-1 connector and grand, and remove it after adjustment. (Connect positive polarity of the capacitor to ground.*

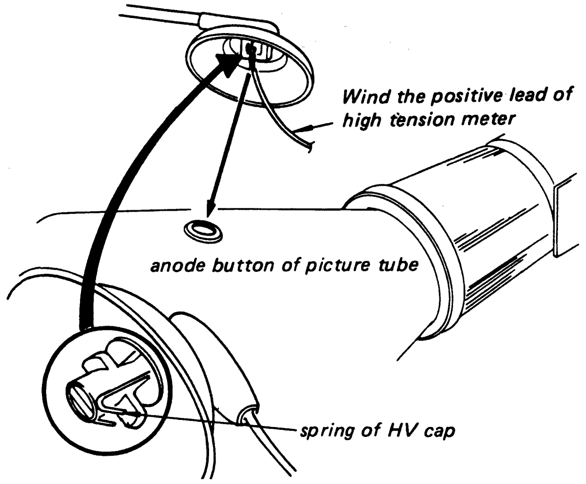
☒ R867, R868 Adjustment

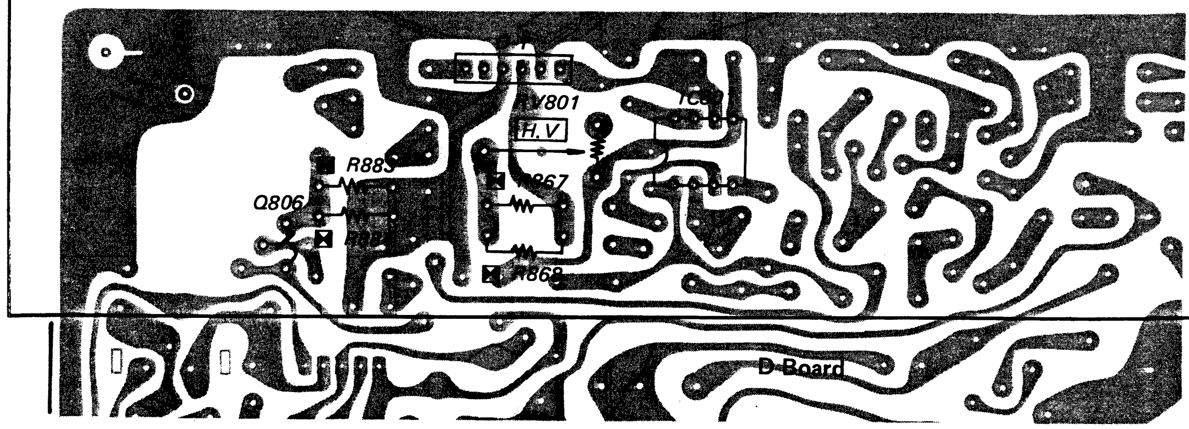
When replacing the following components, make this adjustment.

R584~588, R627~R629, R631, R634, R867, R868, D625, Q625, Q627, IC801, HV BLOCK, RV621, RV801
(Identified by ◪ mark)

1. *Connect the positive lead of the high tension meter to the spring of HV Cap, and the negative lead to the braided wire connected to the picture tube earth spring.*
2. *Power switch on. Adjust regulator +95 V, ±12 V circuit so that the maximum voltage values.*
3. *Turn the variable resistor RV801 for maximum voltage on the high tension meter.*
4. *Select the resistance value of R867, R868 so that the reading of the high tension meter is 20.2 kV ~ 20.8 kV (when digital multimeter is used: 10.1 V ~ 10.4 V).*
5. *After the adjustment, turn the variable resistor RV801 for 20 kV ±0.2 kV on the high tension meter.*

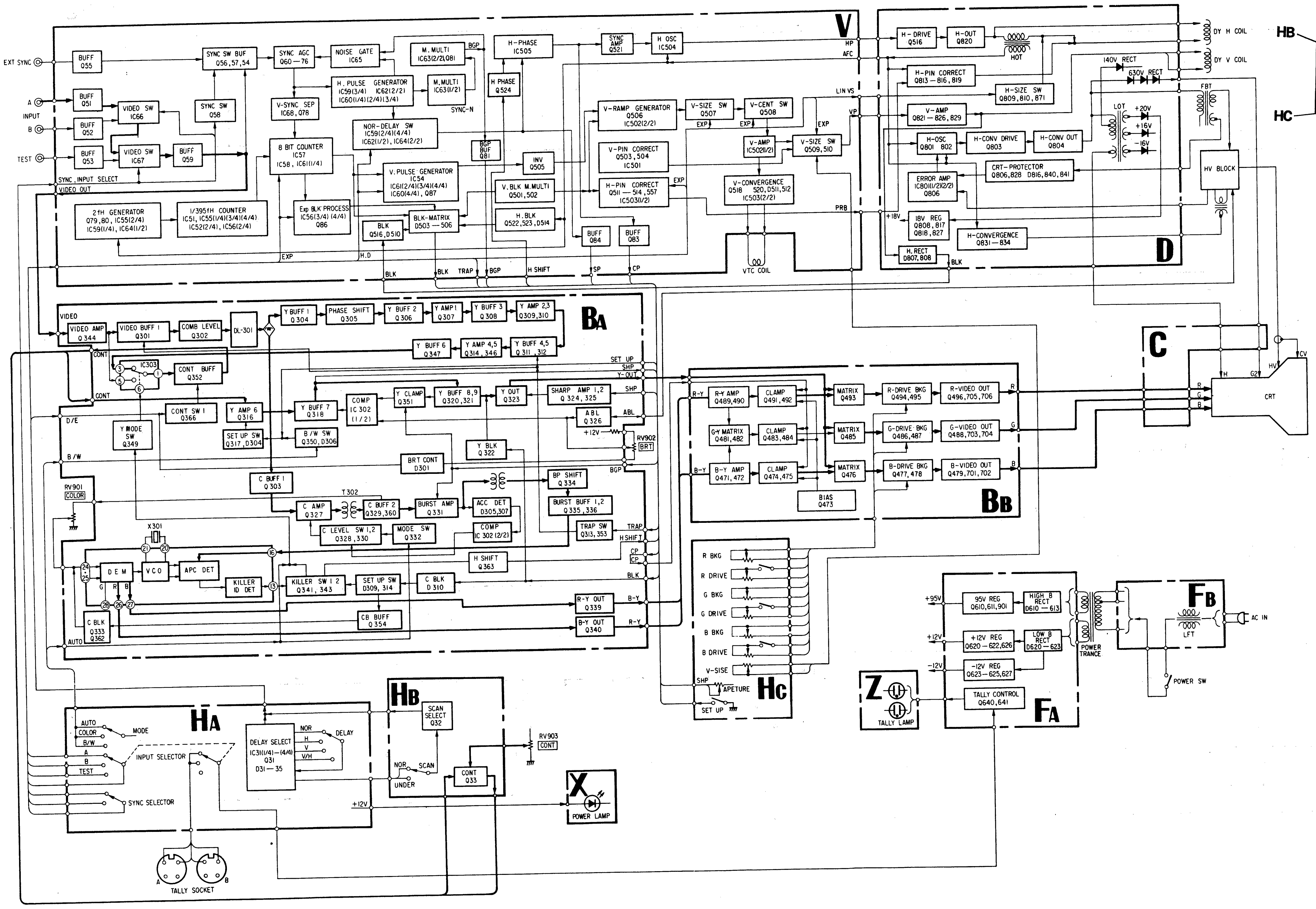
Note: *When digital multimeter is used instead of high tension meter, the voltage value between pin No. 6 of IC801 and pin No. 3 of D-1 connector should be adjusted so that above range. In this time, connect electrolytic capacitor (4.7 μF/16 V) between D-1 connector and grand, and remove it after adjustment. (Connect positive polarity of the capacitor to ground.*


Wind the positive lead of high tension meter
anode button of picture tube
spring of HV cap

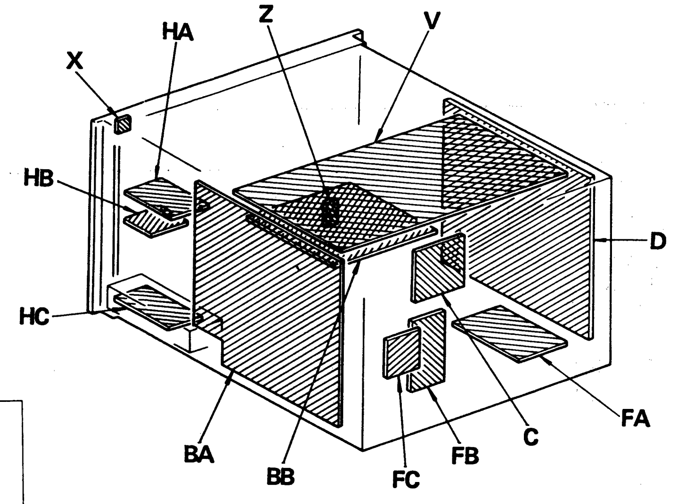


SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM

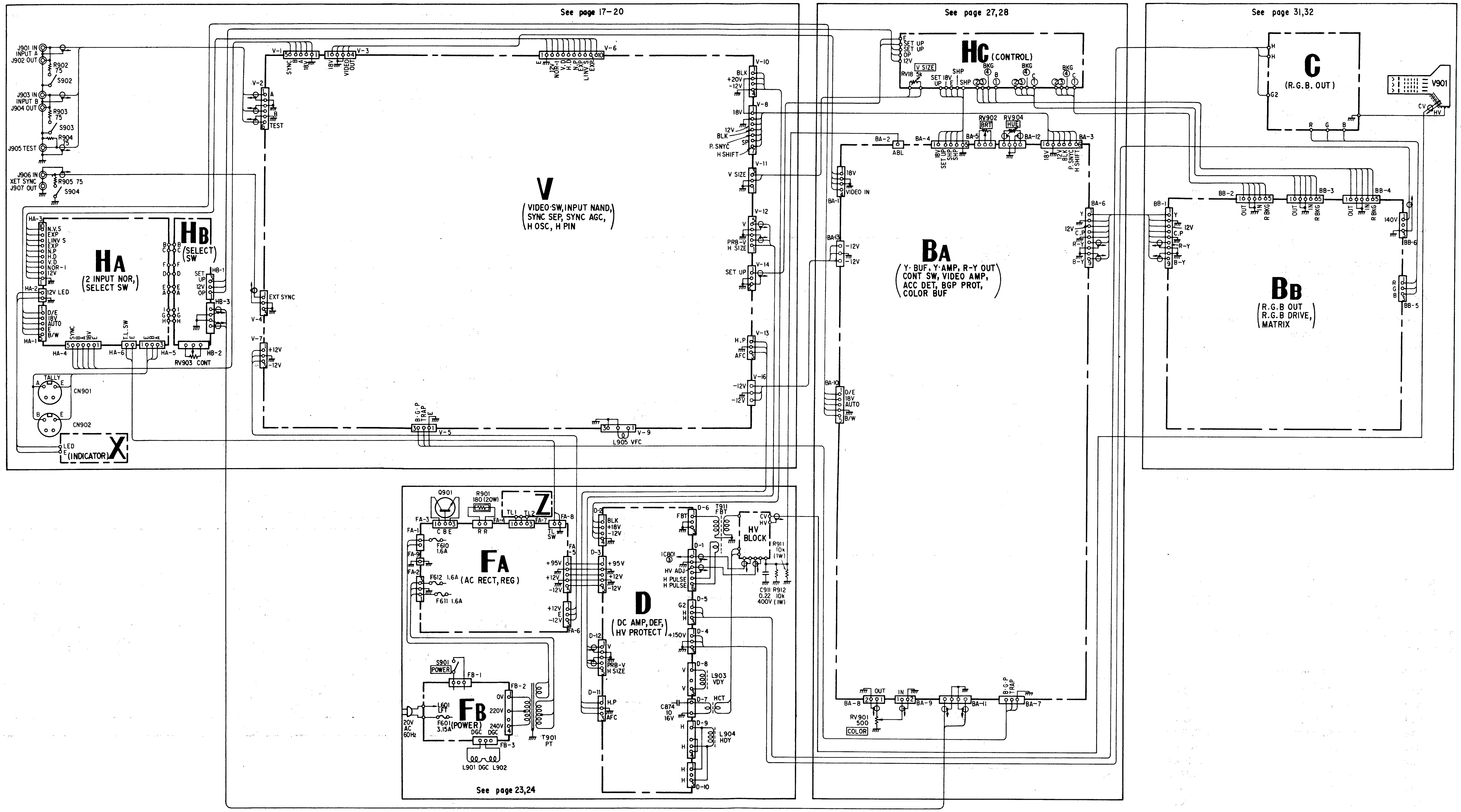

V
EXT SYNC
A
INPUT
B
TEST
BUFF Q55
BUFF Q51
BUFF Q52
BUFF Q53
VIDEO SW IC66
VIDEO SW IC67
BUFF Q59
SYNC SW BUF Q56,57,54
SYNC SW Q58
SYNC AGC Q60—76
V-SYNC SEP IC68, Q78
NOISE GATE IC65
H. PULSE GENERATOR IC59(3/4) IC62(2/2) IC60(1/4)(2/4)(3/4)
M. MULTI IC63(2/2)Q81
M.MULTI IC63(1/2)
SYNC-N
BGP
8 BIT COUNTER IC57 IC58, IC61(1/4)
NOR-DELAY SW IC59(2/4)(4/4) IC62(1/2), IC64(2/2)
V. PULSE GENERATOR IC54 IC61(2/4)(3/4)(4/4) IC60(4/4), Q87
Exp BLK PROCESS IC56(3/4)(4/4) Q86
BLK Q516,D510
BLK-MATRIX D503—506
H-PHASE IC505
H PHASE Q524
BGP BUF Q81
INV Q505
V. BLK M.MULTI Q501,502
H. BLK Q522,523,D514
SYNC AMP Q521
H OSC IC504
V-RAMP GENERATOR Q506 IC502(2/2)
V-SIZE SW Q507
V-CENT SW Q508
V-PIN CORRECT Q503,504 IC501
V-AMP IC502(1/2)
V-SIZE SW Q509,510
H-PIN CORRECT Q511—514,557 IC503(1/2)
V-CONVERGENCE Q518 520,Q511,512 IC503(2/2)
EXP
HP
AFC
LIN VS
VP
PRB
BUFF Q84
BUFF Q83
VTC COIL
2fH GENERATOR Q79,80, IC55(2/4) IC59(1/4), IC64(1/2)
1/395fH COUNTER IC51, IC55(1/4)(3/4)(4/4) IC52(2/4), IC56(2/4)
SYNC, INPUT SELECT
VIDEO OUT
EXP
H.D
BLK
BLK
TRAP
BGP
H SHIFT
SP
CP
D
H-DRIVE Q516
H-OUT Q820
HOT
DY H COIL
DY V COIL
H-PIN CORRECT Q813—816,819
H-SIZE SW Q809,810,871
140V RECT
630V RECT
FBT
LOT
+20V
+16V
-16V
V-AMP Q821—826,829
H-OSC Q801 802
H-CONV DRIVE Q803
H-CONV OUT Q804
CRT-PROTECTOR Q806,828 D816,840,841
ERROR AMP IC801(1/2)(2/2) Q806
HV BLOCK
+18V
18V REG Q808,817 Q818,827
H-CONVERGENCE Q831—834
H. RECT D807,808
BLK
BA
VIDEO
VIDEO AMP Q344
VIDEO BUFF 1 Q301
COMB LEVEL Q302
DL-301
Y BUFF 1 Q304
PHASE SHIFT Q305
Y BUFF 2 Q306
Y AMP1 Q307
Y BUFF 3 Q308
Y AMP 2,3 Q309,310
Y BUFF 6 Q347
Y AMP 4,5 Q314,346
Y BUFF 4,5 Q311, 312
CONT
IC303
CONT BUFF Q352
SET UP
SHP
Y-OUT
CONT
D/E
CONT SW 1 Q366
Y AMP 6 Q316
Y BUFF 7 Q318
COMP IC 302 (1/2)
Y CLAMP Q351
Y BUFF 8,9 Q320,321
Y OUT Q323
SHARP AMP 1,2 Q 324, 325
ABL Q326
+12V
RV902 BRT
Y MODE SW Q349
SET UP SW Q317,D304
B/W SW Q350,D306
Y BLK Q322
BRT CONT D301
BGP
B/W
RV901 COLOR
C BUFF 1 Q303
T302
C AMP Q327
C BUFF 2 Q329,360
BURST AMP Q331
ACC DET D305,307
BP SHIFT Q334
BURST BUFF 1,2 Q335,336
C LEVEL SW 1,2 Q328,330
MODE SW Q332
COMP IC 302 (2/2)
TRAP SW Q313,353
TRAP
H SHIFT
X301
DEM
VCO
APC DET
KILLER ID DET
KILLER SW 1 2 Q341, 343
SET UP SW Q309, 314
C BLK D310
H SHIFT Q363
CP
CP
BLK
R-Y OUT Q339
B-Y OUT Q340
CB BUFF Q354
C BLK Q333 Q362
AUTO
B-Y
R-Y
C
H
G2
HV
CV
CRT
R
G
B
R-Y
R-Y AMP Q489,490
CLAMP Q491,492
MATRIX Q493
R-DRIVE BKG Q494,495
R-VIDEO OUT Q496,705,706
G-Y MATRIX Q481,482
CLAMP Q483,484
MATRIX Q485
G-DRIVE BKG Q486,487
G-VIDEO OUT Q488,703,704
B-Y
B-Y AMP Q471, 472
CLAMP Q474,475
MATRIX Q476
B-DRIVE BKG Q477, 478
B-VIDEO OUT Q479,701,702
BIAS Q473
BB
R BKG
R DRIVE
G BKG
G DRIVE
B BKG
B DRIVE
V-SISE
SHP
APETURE
SET UP
HC
+95V
95V REG Q610,611,901
HIGH B RECT D610—613
+12V
+12V REG Q620—622,626
LOW B RECT D620—623
-12V
-12V REG Q623—625,627
POWER TRANCE
TALLY CONTROL Q640,641
FA
FB
LFT
AC IN
POWER SW
Z
TALLY LAMP
HA
AUTO
COLOR
B/W
MODE
A
B
TEST
INPUT SELECTOR
SYNC SELECTOR
DELAY SELECT IC31(1/4)—(4/4) Q31 D31—35
NOR
H
V
V/H
DELAY
+12V
TALLY SOCKET
HB
SCAN SELECT Q32
NOR
SCAN
UNDER
CONT Q33
RV903 CONT
X
POWER LAMP

4-2. CIRCUIT BOARDS LOCATION


X
HA
Z
V
HB
D
HC
FA
BA
BB
FC
FB
C

4-3.

4-3. FRAME SCHEMATIC DIAGRAM


See page 17-20
See page 27,28
See page 31,32
See page 23,24
V
(VIDEO·SW, INPUT NAND, SYNC SEP, SYNC AGC, H OSC, H PIN)
HA
(2 INPUT NOR, SELECT SW)
HB
(SELECT SW)
HC (CONTROL)
BA
(Y·BUF, Y·AMP, R-Y OUT CONT SW, VIDEO AMP, ACC DET, BGP PROT, COLOR BUF)
BB
(R.G.B OUT, R.G.B DRIVE, MATRIX)
C
(R.G.B. OUT)
V901
FA
(AC RECT, REG)
FB
(POWER)
D
(DC AMP, DEF, HV PROTECT)
X
(INDICATOR)
Z
HV BLOCK
J901 IN INPUT A
J902 OUT
J903 IN INPUT B
J904 OUT
J905 TEST
J906 IN XET SYNC
J907 OUT
R902 75
S902
R903 75
S903
R904 75
R905 75
S904
CN901
CN902
TALLY
Q901
R901 180 (20W)
F610 1.6A
F612 1.6A
F611 1.6A
S901 POWER
F601 3.15A
L901 DGC L902
T901 PT
20V AC 60Hz
T911 FBT
R911 10k (1W)
C911 0.22 400V
R912 10k (1W)
L903 VDY
L904 HDY
C874 10 16V
HCT
RV901 500 COLOR
RV902 BRT
RV904 HUE
RV903 CONT
L905 VFC
RV18 5k
V SIZE
SHP
BKG
ABL

4-4. SCHEMATIC DIAGRAMS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF = μμF
- All resistors are in ohms, ¼ W unless otherwise noted.
  kΩ : 1000 Ω, MΩ : 1000 kΩ
- ⊟ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.
- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Select the resistance value according to SAFETY RELATED ADJUSTMENT.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ☒ and repeat the adjustment until the specified value is achieved. (Refer to R616, R630, R631, R883, R884, R867, R868 adjustment on page 11 and 12.)
  When replacing the part in below table, be sure to perform the related adjustment.

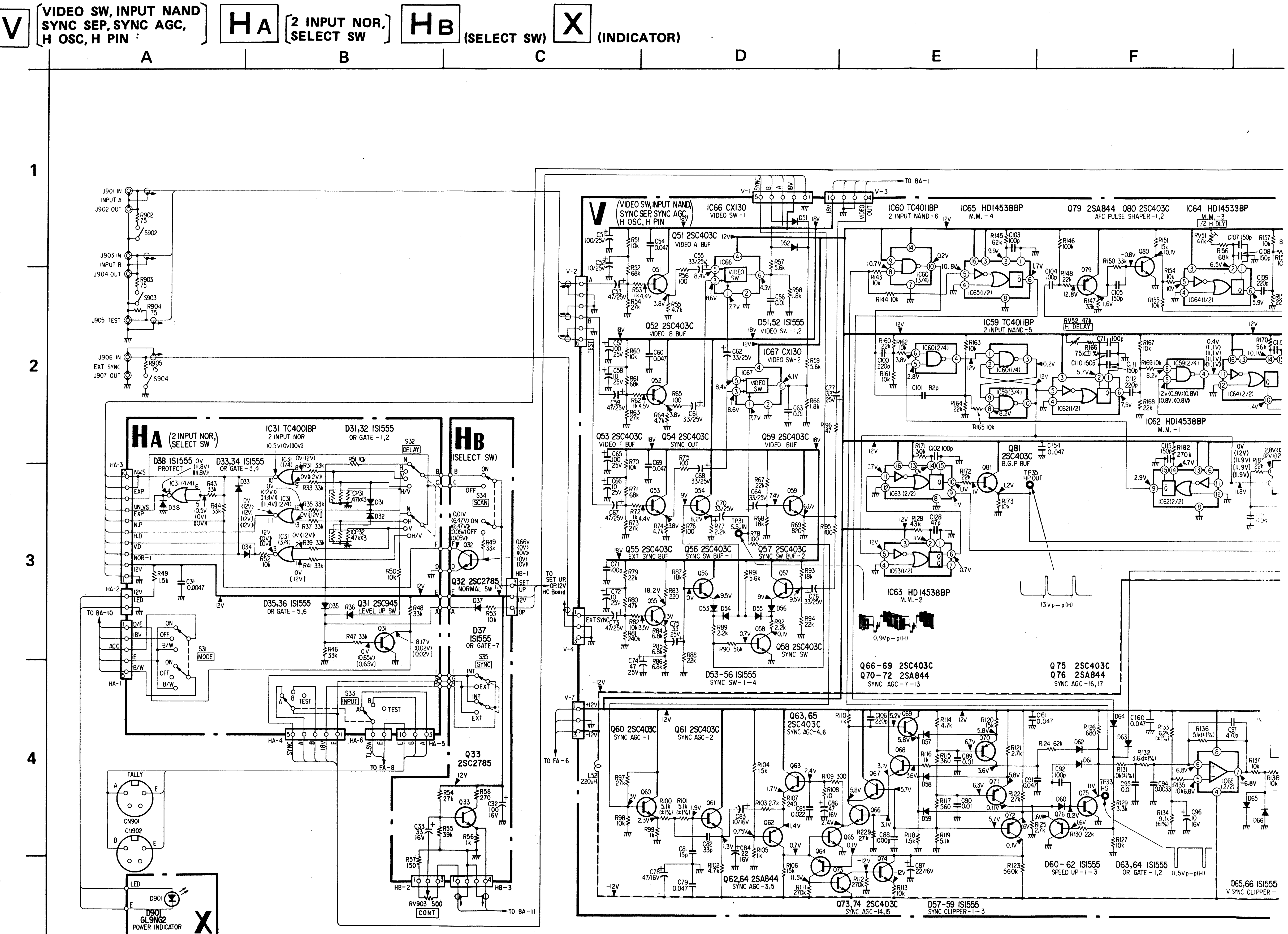
Part replaced (◪)	Adjustment (☒)
C820, C865, D615, D624, D625, D816 D840, D841, D890, D891, Q611, Q622 Q625, Q626, Q627, Q806, Q828, D892 R584–588, R613–617, R622–624, R627–631, R633, R634 R867, R868, R881–887, R895, R896 RV610, RV620, RV621, RV801, IC801, TH610, T911, HV BLOCK	R616, R630 R631, R867 R868, R883 R884

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage variations may be noted due to normal production tolerances.
- Voltages are taken with the MODE switch set at AUTO position.
- No parences: common value.

	SCAN Sw.	DELAY Sw.
< > :	ON	NORMAL
≪ ≫ :	ON	H
( ) :	ON	V
(( )) :	ON	H/V
[ ] :	OFF	NORMAL
[[ ]] :	OFF	H
< > :	OFF	V
[ ] :	OFF	H/V

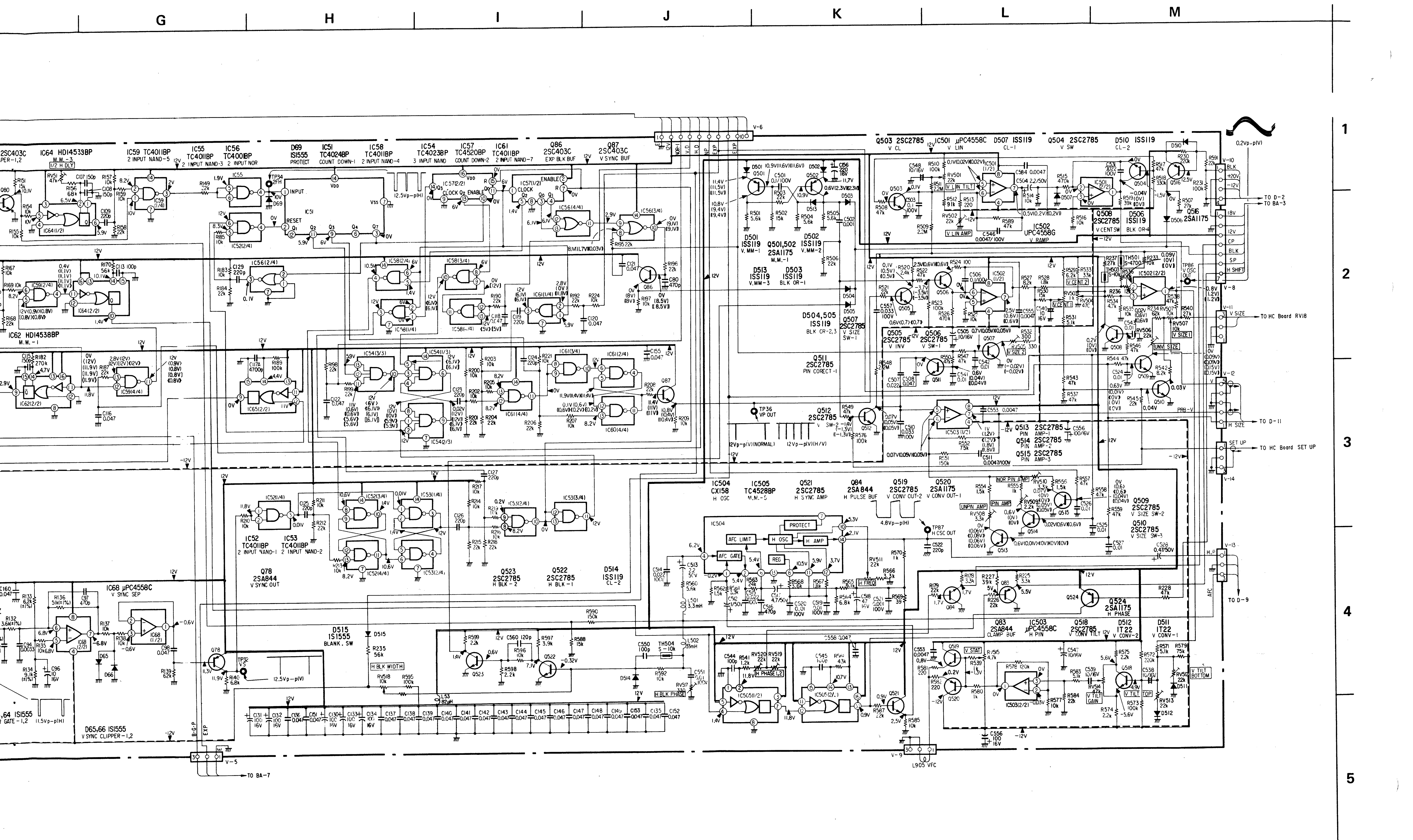
- ▭ : adjustment for repair.
- Readings are taken with a color-bar signal input.
- Switch

Ref. No.	Description	Position
S11	SCREEN R	ON
S12	SCREEN G	ON
S13	SCREEN B	ON
S14	OPERATE/SET UP	OPERATE
S31	MODE	AUTO
S32	DELAY	NORMAL
S33	INPUT	CH-A
S34	SCAN	ON
S35	SYNC	INT
S901	POWER	ON
S902	CH-A 75 Ω	OFF
S903	CH-B 75 Ω	OFF
S904	EXT SYNC 75 Ω	OFF



V (VIDEO SW, INPUT NAND / SYNC SEP, SYNC AGC, / H OSC, H PIN) HA (2 INPUT NOR, / SELECT SW) HB (SELECT SW) X (INDICATOR)

A
B
C
D
E
F
1
2
3
4
5
J901 IN INPUT A
J902 OUT
J903 IN INPUT B
J904 OUT
J905 TEST
J906 IN EXT SYNC
J907 OUT
S902
S903
S904
HA (2 INPUT NOR, SELECT SW)
IC31 TC4001BP 2 INPUT NOR
D31,32 1S1555 OR GATE-1,2
D38 1S1555 PROTECT
D33,34 1S1555 OR GATE-3,4
D35,36 1S1555 OR GATE-5,6
Q31 2SC945 LEVEL UP SW
S31 MODE
S32 DELAY
S33 INPUT
HB (SELECT SW)
S34 SCAN
S35 SYNC
Q32 2SC2785 NORMAL SW
D37 1S1555 OR GATE-7
Q33 2SC2785
RV903 500 CONT
TO BA-10
TO BA-11
TO FA-8
TO FA-6
TO SET UP, OR12V HC Board
TALLY
CN901
CN902
D901 GL9NG2 POWER INDICATOR
X (INDICATOR)
V (VIDEO SW, INPUT NAND, SYNC SEP, SYNC AGC, H OSC, H PIN)
IC66 CX130 VIDEO SW-1
IC67 CX130 VIDEO SW-2
Q51 2SC403C VIDEO A BUF
Q52 2SC403C VIDEO B BUF
D51,52 1S1555 VIDEO SW-1,2
Q53 2SC403C VIDEO T BUF
Q54 2SC403C SYNC OUT
Q59 2SC403C VIDEO BUF
Q55 2SC403C EXT SYNC BUF
Q56 2SC403C SYNC SW BUF-1
Q57 2SC403C SYNC SW BUF-2
Q58 2SC403C SYNC SW
D53-56 1S1555 SYNC SW-1-4
TP31 S.S.IN
IC60 TC4011BP 2 INPUT NAND-6
IC65 HD14538BP M.M.-4
Q79 2SA844 Q80 2SC403C AFC PULSE SHAPER-1,2
IC64 HD14533BP M.M.-3
RV51 H DLY
IC59 TC4011BP 2 INPUT NAND-5
RV52 H DELAY
IC62 HD14538BP M.M.-1
Q81 2SC403C B.G.P BUF
TP35 HP OUT
IC63 HD14538BP M.M.-2
0.9Vp-p(H)
13Vp-p(H)
Q66-69 2SC403C
Q70-72 2SA844 SYNC AGC-7-13
Q75 2SC403C
Q76 2SA844 SYNC AGC-16,17
Q60 2SC403C SYNC AGC-1
Q61 2SC403C SYNC AGC-2
Q63,65 2SC403C SYNC AGC-4,6
Q62,64 2SA844 SYNC AGC-3,5
Q73,74 2SC403C SYNC AGC-14,15
D57-59 1S1555 SYNC CLIPPER-1-3
D60-62 1S1555 SPEED UP-1-3
D63,64 1S1555 OR GATE-1,2
11.5Vp-p(H)
D65,66 1S1555 V SYNC CLIPPER-
IC68
TP33 HS
L52 220μH
TO BA-I
V-1
V-2
V-3
V-4
V-7
HA-1
HA-2
HA-3
HA-4
HA-5
HA-6
HB-1
HB-2
HB-3



G
H
I
J
K
L
M
1
2
3
4
5
2SC403C
IC64 HD14533BP M.M.-3
1/2 H DLY
IC59 TC4011BP 2 INPUT NAND-5
IC55 TC4011BP 2 INPUT NAND-3
IC56 TC4001BP 2 INPUT NOR
D69 1S1555 PROTECT
IC51 TC4024BP COUNT DOWN-1
IC58 TC4011BP 2 INPUT NAND-4
IC54 TC4023BP 3 INPUT NAND
IC57 TC4520BP COUNT DOWN-2
IC61 TC4011BP 2 INPUT NAND-7
Q86 2SC403C EXP BLK BUF
Q87 2SC403C V SYNC BUF
TP34 2FH
INPUT
RESET
CLOCK
ENABLE
12.5Vp-p(H)
V-6
Q503 2SC2785 V CL
IC501 µPC4558C V LIN
D507 1SS119 CL-1
Q504 2SC2785 V SW
D510 1SS119 CL-2
0.2Vp-p(V)
V L IN TILT
V LIN AMP
IC502 UPC4558G V RAMP
Q508 2SC2785 V CENT SW
D506 1SS119 BLK OR-4
Q516 2SA1175
V-10
BLK
+20V
-12V
TO D-2
TO BA-3
18V
12V
CP
BLK
SP
H SHIFT
V-8
D501 1SS119 V.MM-1
Q501,502 2SA1175 M.M.-1
D502 1SS119 V.MM-2
D513 1SS119 V.MM-3
D503 1SS119 BLK OR-1
D504,505 1SS119 BLK OR-2,3
Q507 2SC2785 V SIZE SW-1
Q511 2SC2785 PIN CORECT-1
Q505 2SC2785 V INV
Q506 2SC2785 V SW-1
V CENT 1
V CENT 2
V SIZE 2
V SIZE 1
UNV SIZE
TP86 V OSC OUT
V-11 V SIZE
TO HC Board RV18
V-12
TO D-11
H SIZE
SET UP
TO HC Board SET UP
V-14
IC62 HD14538BP M.M.-1
IC65(2/2)
TP36 VP OUT
12Vp-p(V)(NORMAL)
12Vp-p(V)(H/V)
Q512 2SC2785 V SW-2
IC503(1/2)
Q513 2SC2785 PIN AMP-1
Q514 2SC2785 PIN AMP-2
Q515 2SC2785 PIN AMP-3
NOR PIN AMP
UNPIN AMP
PIN AMP
Q509 2SC2785 V SIZE SW-2
Q510 2SC2785 V SIZE SW-3
IC52 TC4011BP 2 INPUT NAND-1
IC53 TC4011BP 2 INPUT NAND-2
Q78 2SA844 V SYNC OUT
Q523 2SC2785 H BLK-2
Q522 2SC2785 H BLK-1
D514 1SS119 CL-2
IC504 CX158 H OSC
IC505 TC4528BP M.M.-5
Q521 2SC2785 H SYNC AMP
Q84 2SA844 H PULSE BUF
Q519 2SC2785 V CONV OUT-2
Q520 2SA1175 V CONV OUT-1
4.8Vp-p(H)
TP87 H OSC OUT
PROTECT
AFC LIMIT
H OSC
H AMP
AFC GATE
REG
H FREQ
V-13
AFC
TO D-9
IC68 µPC4558C V SYNC SEP
D515 1S1555 BLANK. SW
H BLK WIDTH
H BLK PHASE
H PHASE 1,2
Q524 2SA1175 H PHASE
Q83 2SA844 CLAMP BUF
IC503 µPC4558C H PIN
Q518 2SC2785 V CONV TILT
D512 1T22 V CONV-2
D511 1T22 V CONV-1
V STAT
V TILT GAIN
V TILT TOP
V TILT BOTTOM
TP32 VS
12.5Vp-p(V)
11.5Vp-p(H)
D65,66 1S1555 V SYNC CLIPPER-1,2
B-G-P
EXP
V-5
TO BA-7
V-9
L905 VFC

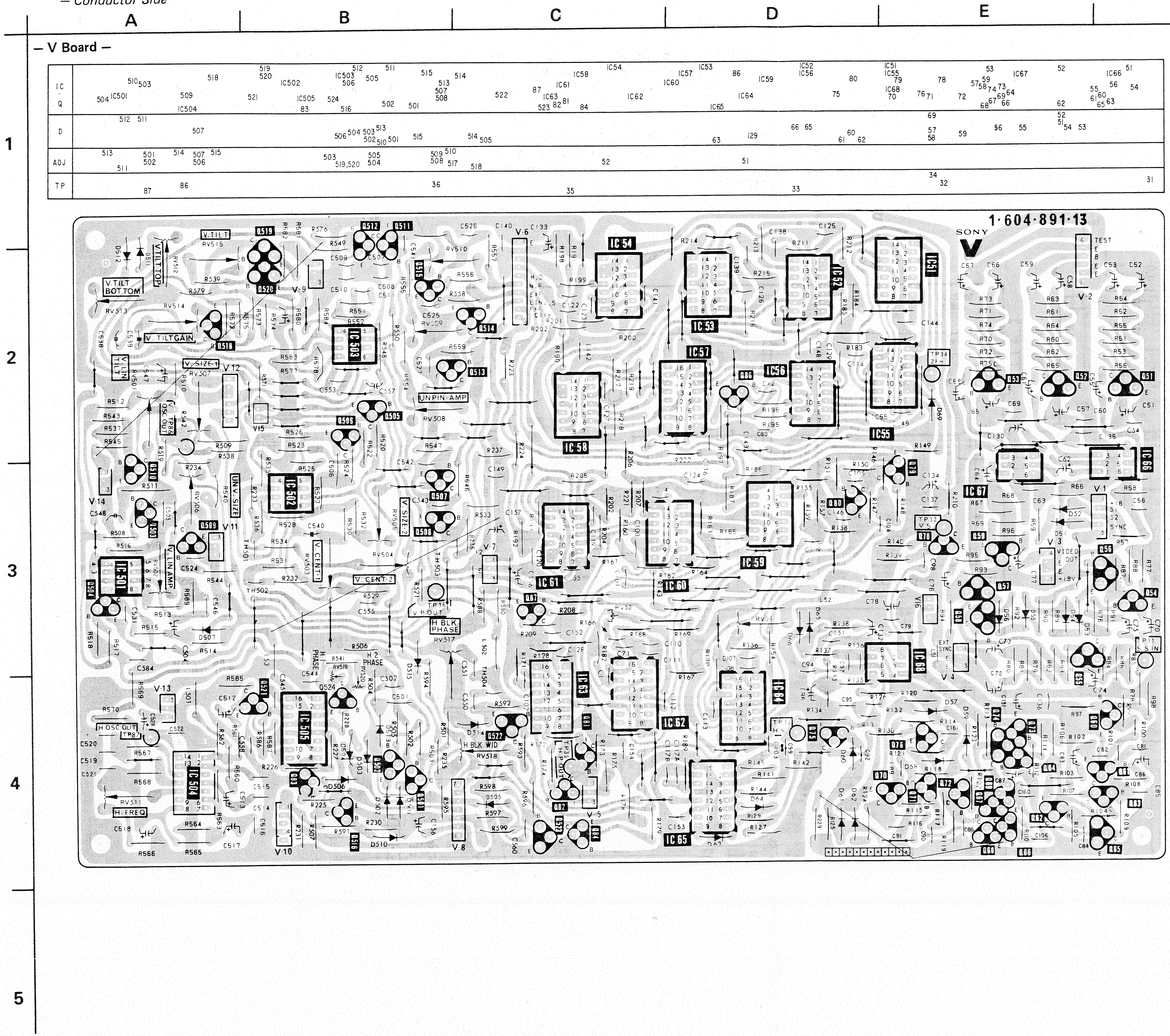
V VIDEO SW, INPUT NAND SYNC SEP, SYNC AGC, H OSC, H PIN **HA** 2 INPUT NOR, SELECT SW **HB** (SELECT SW) **X** (INDICATOR)

4-5. PRINTED WIRING BOARDS

– Conductor Side –

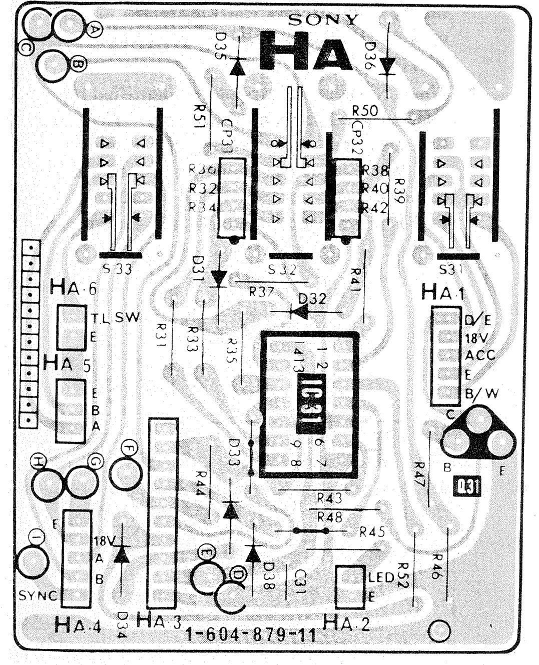
– V Board –

	A	B	C	D	E	F
IC·Q	504, IC501, 510, 503, 509, IC504, 518	521, 519, 520, IC502, IC505, 83, 524, 516, IC503, 506, 512, 505, 502, 511, 501, 515, 513, 507, 508	514, 522, 87, IC63, 523, 82, 81, IC61, IC58, 84, IC54, IC62	IC60, IC57, IC53, IC65, 86, IC64, IC59, IC52, IC56, 75, 80	IC51, IC55, 79, IC68, 70, 76, 71, 78, 72, 57, 58, 59, 53, 74, 73, 68, 67, 69, 64, 66, IC67, 52, 62	55, 61, 60, 65, 63, IC66, 56, 51, 54
D	512, 511, 507	506, 504, 503, 513, 502, 510, 501, 515	514, 505	63, 129, 66, 65, 61, 60, 62	69, 57, 58, 59, 56, 55, 52, 51, 54, 53	
ADJ	513, 511, 501, 502, 514, 507, 506, 515	503, 519,520, 505, 504, 509, 508, 510, 517	518, 52	51		
TP	87, 86	36	35	33	34, 32	31



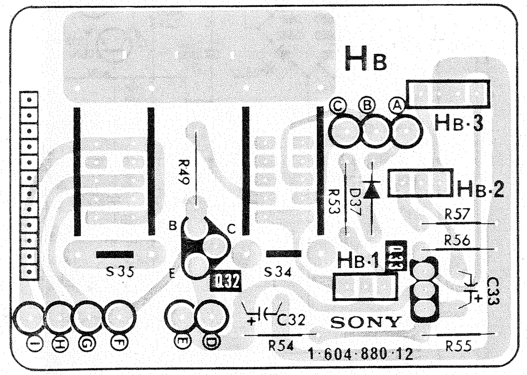
A
B
C
D
E
F
G
1
2
3
4
5
1·604·891·13
SONY
V
V.TILT TOP
V.TILT BOTTOM
V.TILTGAIN
V.SIZE-1
V.LIN
UNV.SIZE
V.LIN AMP
V.CENT-1
V.CENT-2
V.SIZE-2
UNPIN AMP
H BLK PHASE
H BLK WID
H OSC OUT
H FREQ
H PHASE
V P OUT
TEST
VIDEO OUT
EXT SYNC
P.I.T S.IN
IC501
IC502
IC503
IC504
IC505
IC51
IC52
IC53
IC54
IC55
IC56
IC57
IC58
IC59
IC60
IC61
IC62
IC63
IC64
IC65
IC66
IC67
IC68

– HA Board –



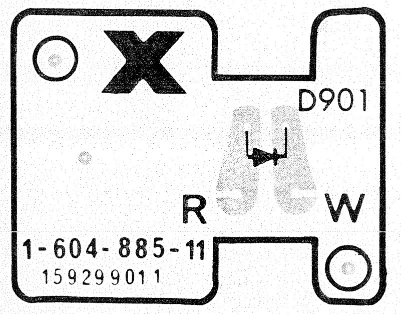
SONY
HA
HA 1
HA 2
HA 3
HA 4
HA 5
HA 6
S31
S32
S33
TL SW
D/E
18V
ACC
B/W
SYNC
LED
IC31
Q31
1-604-879-11

– HB Board –



HB
HB·1
HB·2
HB·3
S34
S35
Q32
Q33
SONY
1·604·880·12

– X Board –



X
D901
R
W
1-604-885-11
159299011

4-6. SCHEMATIC DIAGRAMS

Note:

- The components identified by ▣ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Select the resistance value according to SAFETY RELATED ADJUSTMENT.
- When replacing components identified by ◪, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ▣ and repeat the adjustment until the specified value is achieved. (Refer to R616, R630, R631, R883, R884, R867, R868, and RV801 adjustment on page 11 and 12.)

When replacing the part in below table, be sure to perform the related adjustment.

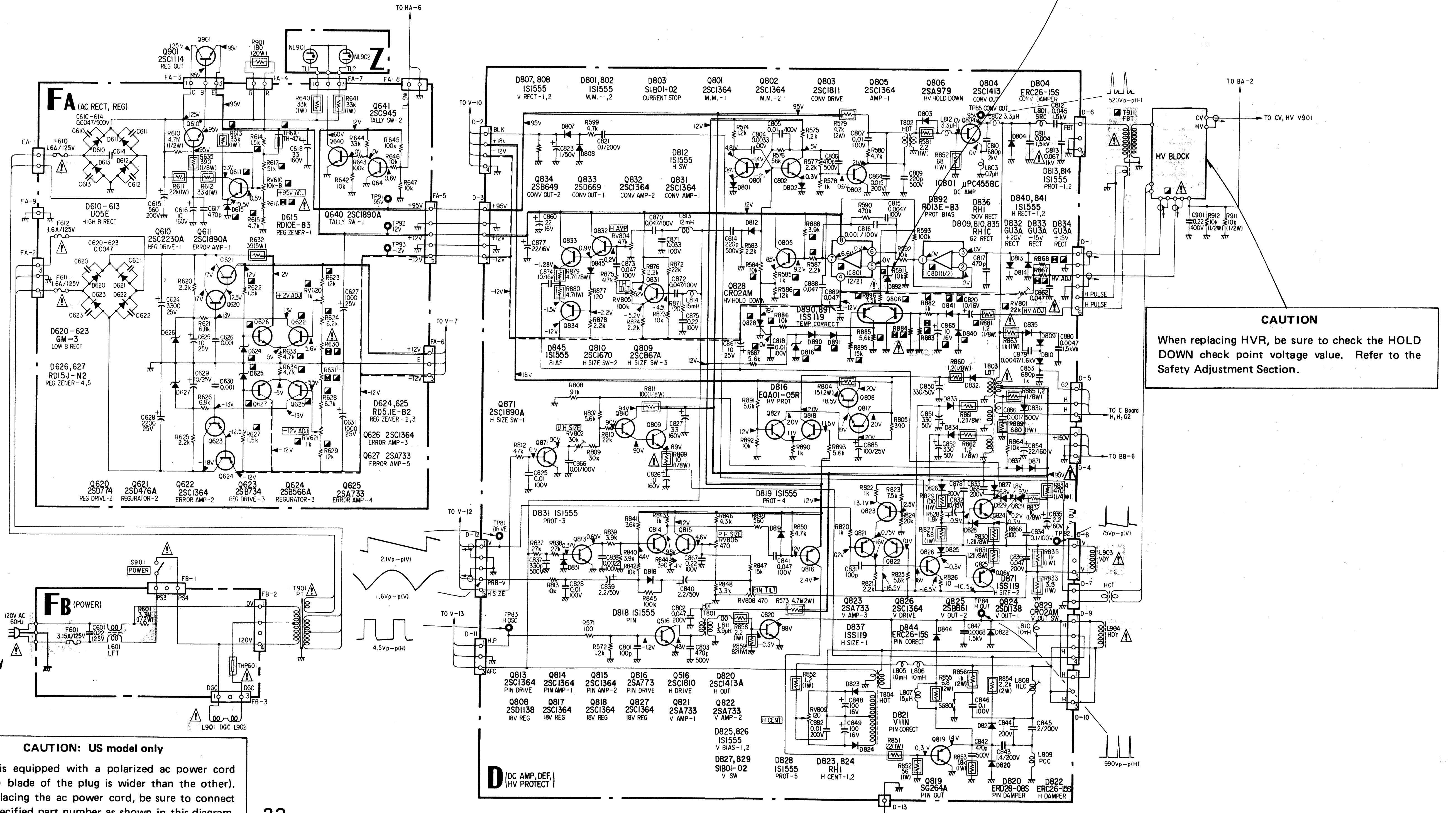
Part replaced (◪)	Adjustment (▣)
C820, C865, D615, D624, D625, D816 D840, D841, D890, D891, Q611, Q622 Q625, Q626, Q627, Q806, Q828, D892 R584–588, R613–617, R622–624, R627–631, R633, R634 R867, R868, R881–887, R895, R896 RV610, RV620, RV621, RV801, IC801, TH610, T911, HV BLOCK	R616, R630 R631, R867 R868, R883 R884

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CAUTION:

After replacing D892 confirm as follows.
At first short between Gate and Cathode of Q828, and then, there is no High Voltage between Collector and Emitter of Q624.


A
B
C
D
E
F
G
1
2
3
4
5
FA (AC RECT, REG)
FB (POWER)
D (DC AMP, DEF. HV PROTECT)
Z
TO HA-6
TO BA-2
TO CV, HV V901
HV BLOCK
T911 FBT
TO C Board H, H, G2
TO BB-6
TO V-10
TO V-7
TO V-12
TO V-13
2.1Vp-p(V)
1.6Vp-p(V)
4.5Vp-p(H)
520Vp-p(H)
75Vp-p(V)
990Vp-p(H)
120V AC 60Hz
S901 POWER
IC801 μPC4558C DC AMP
D892 RD13E-B3 PROT BIAS
Q620 2SD774 REG DRIVE-2
Q621 2SD476A REGURATOR-2
Q622 2SC1364 ERROR AMP-2
Q623 2SB734 REG DRIVE-3
Q624 2SB566A REGURATOR-3
Q625 2SA733 ERROR AMP-4
Q610 2SC2230A REG DRIVE-1
Q611 2SC1890A ERROR AMP-1
Q640 2SC1890A TALLY SW-1
Q641 2SC945 TALLY SW-2
Q901 2SC1114 REG OUT
D610-613 U05E HIGH B RECT
D620-623 GM-3 LOW B RECT
D626,627 RD15J-N2 REG ZENER-4,5
D615 RD10E-B3 REG ZENER-1
D624,625 RD5.1E-B2 REG ZENER-2,3
Q626 2SC1364 ERROR AMP-3
Q627 2SA733 ERROR AMP-5
L901 DGC L902
THP601
Q813 2SC1364 PIN DRIVE
Q814 2SC1364 PIN AMP-1
Q815 2SC1364 PIN AMP-2
Q816 2SA773 PIN DRIVE
Q516 2SC1810 H DRIVE
Q820 2SC1413A H OUT
Q808 2SD1138 18V REG
Q817 2SC1364 18V REG
Q818 2SC1364 18V REG
Q827 2SC1364 18V REG
Q821 2SA733 V AMP-1
Q822 2SA733 V AMP-2
D825,826 1S1555 V BIAS-1,2
D827,829 S1B01-02 V SW
D828 1S1555 PROT-5
D823,824 RH1 H CENT-1,2
Q819 SG264A PIN OUT
D820 ERD28-08S PIN DAMPER
D822 ERC26-15S H DAMPER
Q823 2SA733 V AMP-3
Q826 2SC1364 V DRIVE
Q825 2SB861 V OUT-2
Q824 2SD1138 V OUT-1
Q829 CR02AM V OUT SW
D837 1S5119 H SIZE-1
D844 ERC26-15S PIN CORRECT
D831 1S1555 PROT-3
D818 1S1555 PIN
D819 1S1555 PROT-4
Q871 2SC1890A H SIZE SW-1
Q845 1S1555 BIAS
Q810 2SC1670 H SIZE SW-2
Q809 2SC867A H SIZE SW-3
D816 EQA01-05R HV PROT
Q828 CR02AM HV HOLD DOWN
D890,891 1S5119 TEMP CORRECT
Q834 2SB649 CONV OUT-2
Q833 2SD669 CONV OUT-1
Q832 2SC1364 CONV AMP-2
Q831 2SC1364 CONV AMP-1
D812 1S1555 H SW
D807,808 1S1555 V RECT-1,2
D801,802 1S1555 M.M.-1,2
D803 S1B01-02 CURRENT STOP
Q801 2SC1364 M.M.-1
Q802 2SC1364 M.M.-2
Q803 2SC1811 CONV DRIVE
Q805 2SC1364 AMP-1
Q806 2SA979 HV HOLD DOWN
Q804 2SC1413 CONV OUT
D804 ERC26-15S CONV DAMPER
D813,814 1S1555 PROT-1,2
D840,841 1S1555 H RECT-1,2
D836 RH1 150V RECT
D809,810,835 RH1C G2 RECT
D832 GU3A +20V RECT
D833 GU3A -15V RECT
D834 GU3A +15V RECT
L903 VDY
L904 HDY
L909 PCC
L808 HLC
HCT

CAUTION

When replacing HVR, be sure to check the HOLD DOWN check point voltage value. Refer to the Safety Adjustment Section.

CAUTION: US model only

This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.

FA (AC RECT, REG) **FB** (POWER) **D** (DC AMP, DEF. HV PROTECT) **Z**

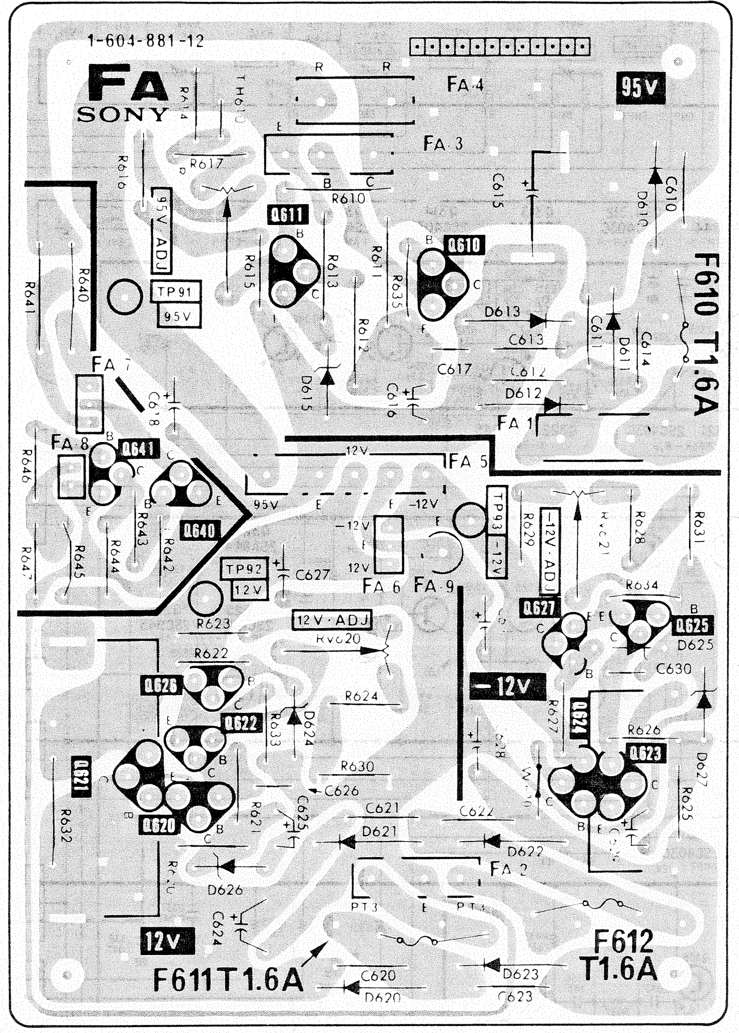
4-7. PRINTED WIRING BOARDS

– Conductor Side –

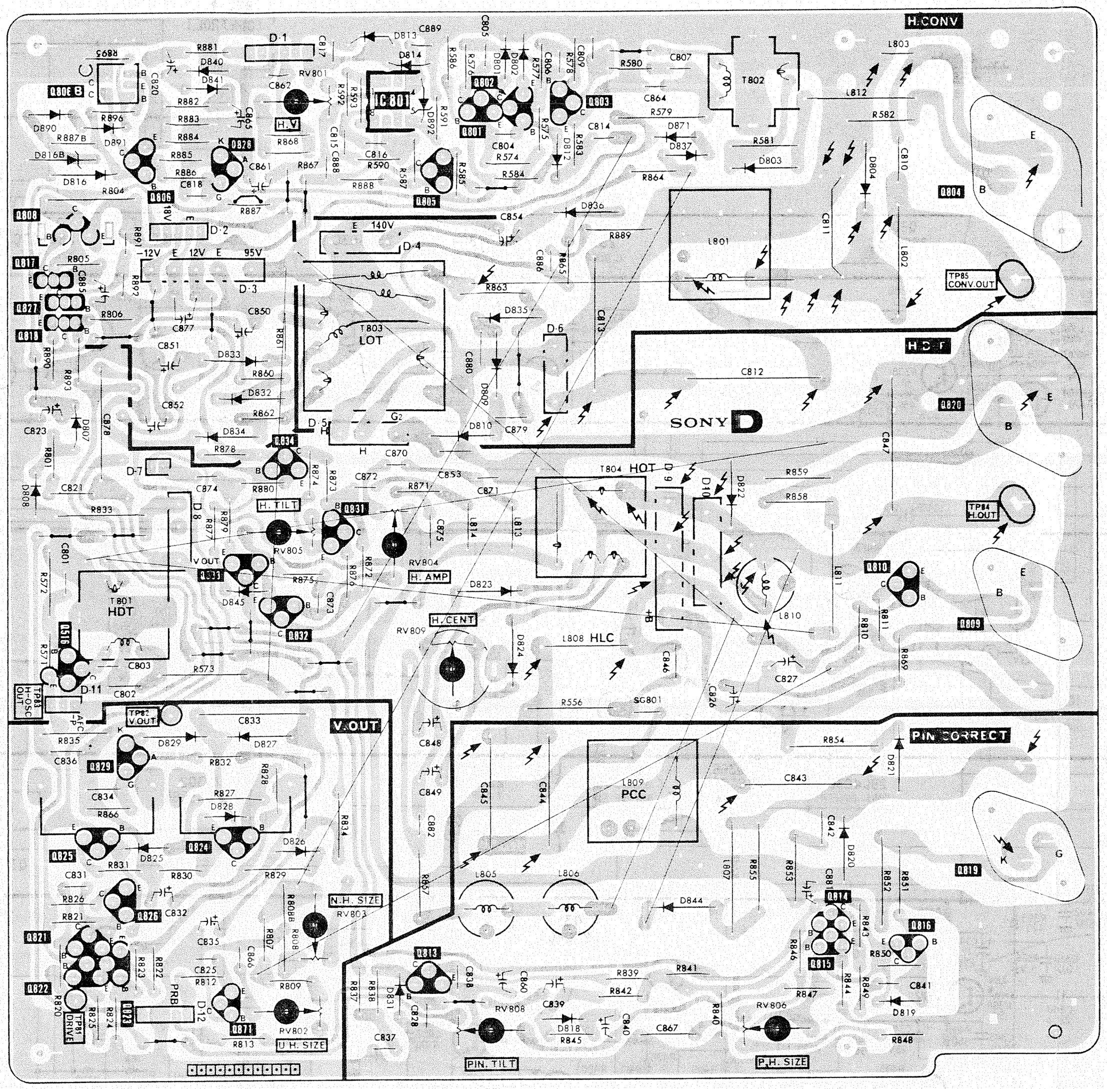
A B C D E F G

– FA Board –

Q	D	ADJ	TP
	610		
		610	
611 610			91
	613 611		
	615 612		
641 640			
		621	93
			92
625 627			
	625	620	
626			
	627		
622	624		
621 620			
624 623			
	621,622 626		
	623		
	620		

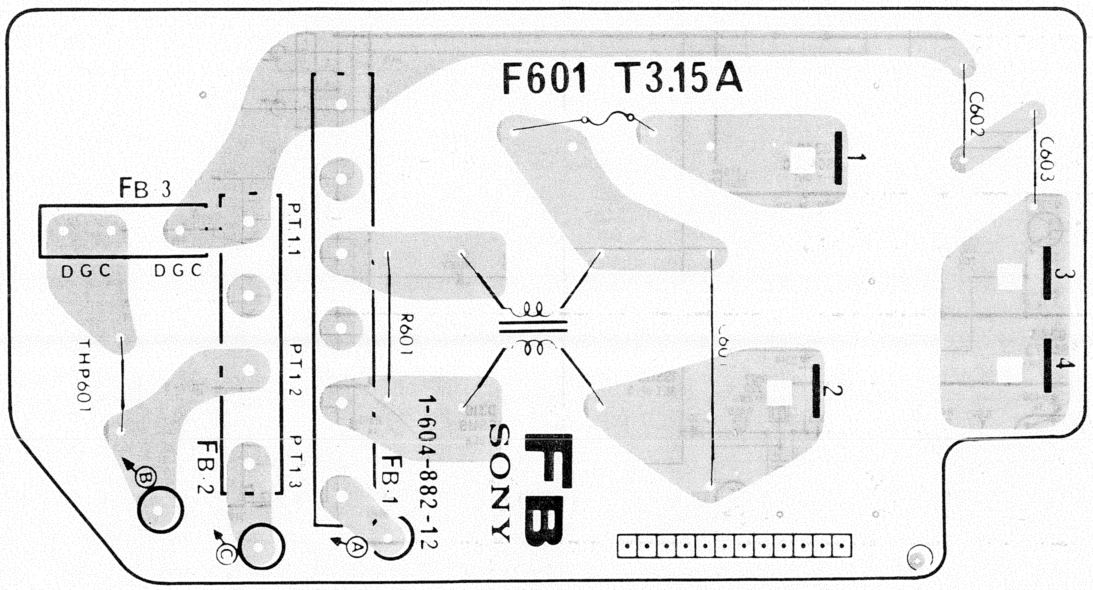

1-604-881-12
FA
SONY
95V
FA 4
FA 3
95V ADJ
TP91
95V
FA 7
FA 8
FA 5
FA 1
FA 6
FA 9
F610 T1.6A
TP92
12V
TP93 -12V
-12V ADJ
12V ADJ
-12V
12V
FA 2
F611 T1.6A
F612 T1.6A
PT1
PT3
Q610
Q611
Q620
Q621
Q622
Q623
Q624
Q625
Q626
Q627
Q640
Q641
D610
D611
D612
D613
D615
D620
D621
D622
D623
D624
D625
D626
D627
RV620

– D Board –

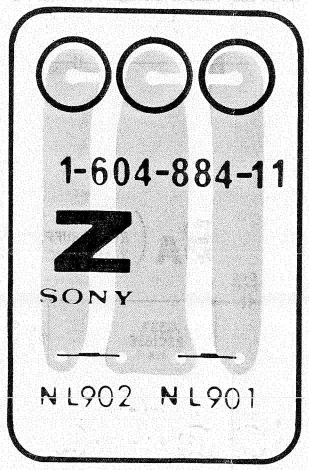

H.CONV
H.V
IC801
T803 LOT
140V
SONY D
H.OUT
TP85 CONV.OUT
TP84 H.OUT
T804 HOT
H.TILT
H.AMP
H.CENT
T801 HDT
L808 HLC
V.OUT
TP83 V.OUT
PIN CORRECT
L809 PCC
N.H. SIZE
U.H. SIZE
PIN. TILT
P.H. SIZE
L801
L805
L806
RV801
RV802
RV803
RV804
RV805
RV806
RV808
RV809

Q · IC	D	ADJ	TP
	813		
	801,802 814		
806B	840 841		
IC801 801,802,803	890	RV801	
	891		
	871 837		
806	816B 812 816		
828 805 804	803		
	804		
	836		
808			
817			TP85
827			
818	835		
	833		
	832		
820	807		
	834 810		
834			
	822		
			TP84
831		RV805 RV804	
833			
810 809			
832	845 823		
516	824	RV809	
			TP83
			TP82
	829 827		
829	821		
	828		
825 824	820 825 826		
819			
826	844		
814		RV803	
821 815 816 823			
822			
813	831		TP81
871	818 819	RV802	
		RV808,806	

– FB Board –


F601 T3.15A
C602
C603
FB 3
DGC
DGC
PT11
PT12
PT13
R601
THP601
FB 2
FB 1
1-604-882-12
SONY
FB
1
2
3
4
B
C
A

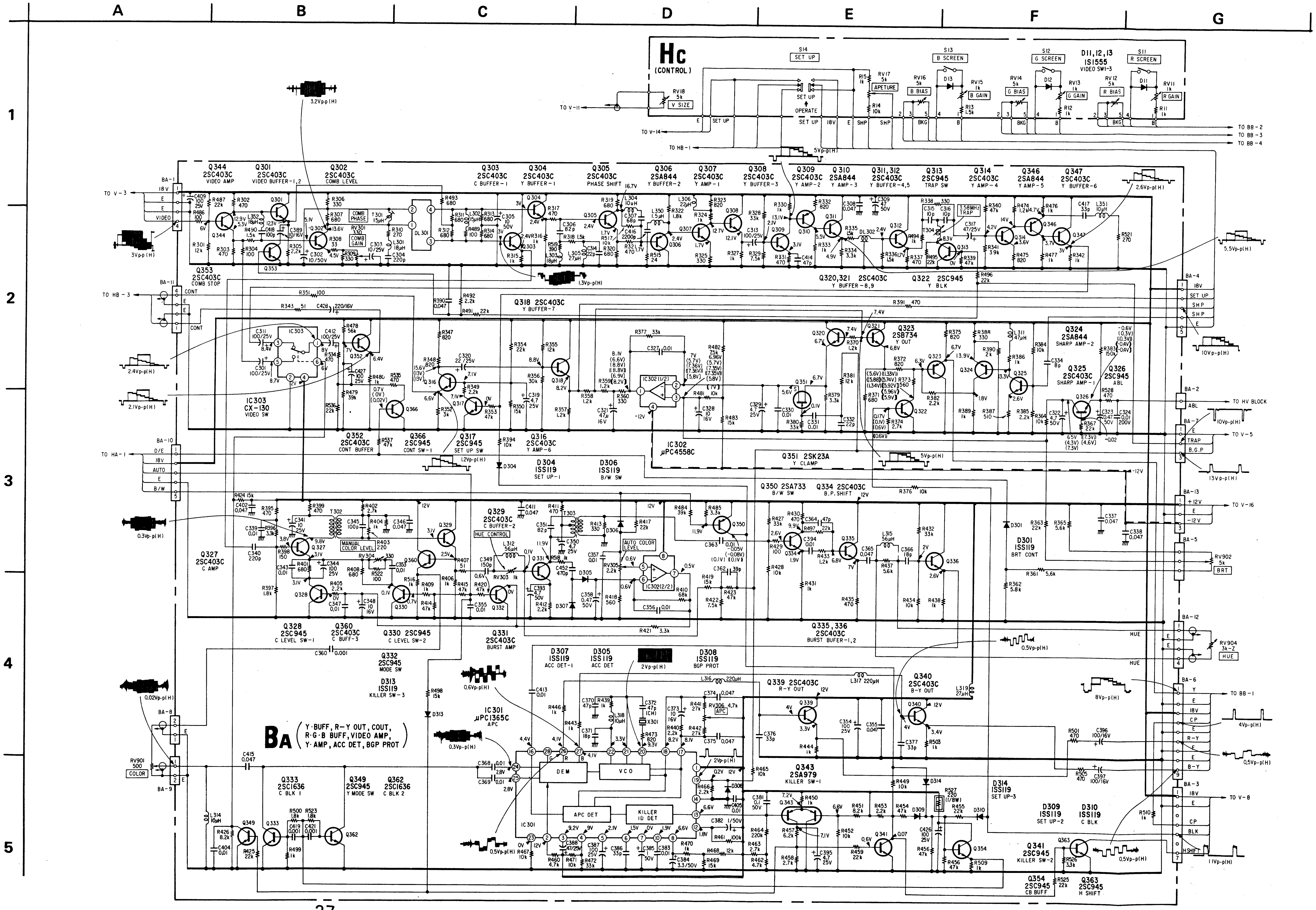
– Z Board –


1-604-884-11
Z
SONY
N L902
N L901

1
2
3
4
5

BA [Y · BUF, Y · AMP, R-Y OUT
CONT SW, VIDEO AMP, ACC DET
B · G · P PROT, COLOR BUF] **HC** (CONTROL)

4-8. SCHEMATIC DIAGRAMS


A
B
C
D
E
F
G
1
2
3
4
5
Hc (CONTROL)
S14 SET UP
S13 B SCREEN
S12 G SCREEN
S11 R SCREEN
D11,12,13 1S1555 VIDEO SW1-3
RV18 5k V SIZE
RV17 5k APETURE
RV16 5k B BIAS
RV15 1k B GAIN
RV14 5k G BIAS
RV13 1k G GAIN
RV12 5k R BIAS
RV11 1k R GAIN
SET UP
OPERATE
TO V-11
TO V-14
TO HB-1
TO BB-2
TO BB-3
TO BB-4
Q344 2SC403C VIDEO AMP
Q301 2SC403C VIDEO BUFFER-1,2
Q302 2SC403C COMB LEVEL
Q303 2SC403C C BUFFER-1
Q304 2SC403C Y BUFFER-1
Q305 2SC403C PHASE SHIFT
Q306 2SA844 Y BUFFER-2
Q307 2SC403C Y AMP-1
Q308 2SC403C Y BUFFER-3
Q309 2SC403C Y AMP-2
Q310 2SA844 Y AMP-3
Q311,312 2SC403C Y BUFFER-4,5
Q313 2SC945 TRAP SW
Q314 2SC403C Y AMP-4
Q346 2SA844 Y AMP-5
Q347 2SC403C Y BUFFER-6
Q353 2SC403C COMB STOP
Q320,321 2SC403C Y BUFFER-8,9
Q322 2SC945 Y BLK
Q318 2SC403C Y BUFFER-7
Q323 2SB734 Y OUT
Q324 2SA844 SHARP AMP-2
Q325 2SC403C SHARP AMP-1
Q326 2SC945 ABL
IC303 CX-130 VIDEO SW
IC302 μPC4558C
Q352 2SC403C CONT BUFFER
Q366 2SC945 CONT SW-1
Q317 2SC945 SET UP SW
Q316 2SC403C Y AMP-6
D304 1SS119 SET UP-1
D306 1SS119 B/W SW
Q351 2SK23A Y CLAMP
Q350 2SA733 B/W SW
Q334 2SC403C B.P. SHIFT
Q327 2SC403C C AMP
Q329 2SC403C C BUFFER-2
HUE CONTROL
MANUAL COLOR LEVEL
AUTO COLOR LEVEL
IC302(2/2)
D301 1SS119 BRT CONT
Q328 2SC945 C LEVEL SW-1
Q360 2SC403C C BUFF-3
Q330 2SC945 C LEVEL SW-2
Q331 2SC403C BURST AMP
Q332 2SC945 MODE SW
Q335,336 2SC403C BURST BUFER-1,2
D313 1SS119 KILLER SW-3
D307 1SS119 ACC DET-1
D305 1SS119 ACC DET
D308 1SS119 BGP PROT
Q339 2SC403C R-Y OUT
Q340 2SC403C B-Y OUT
IC301 μPC1365C APC
DEM
VCO
APC DET
KILLER ID DET
Q343 2SA979 KILLER SW-1
D314 1SS119 SET UP-3
D309 1SS119 SET UP-2
D310 1SS119 C BLK
Q341 2SC945 KILLER SW-2
Q354 2SC945 CB BUFF
Q363 2SC945 H SHIFT
Q333 2SC1636 C BLK 1
Q349 2SC945 Y MODE SW
Q362 2SC1636 C BLK 2
BA (Y·BUFF, R-Y OUT, COUT, R·G·B BUFF, VIDEO AMP, Y·AMP, ACC DET, BGP PROT)
RV901 500 COLOR
RV902 5k BRT
RV904 3k-Z HUE
TO V-3
TO HB-3
TO HA-1
TO HV BLOCK
TO V-5
TO V-16
TO BB-1
TO V-8
3.2Vp-p(H)
3Vp-p(H)
1.3Vp-p(H)
2.6Vp-p(H)
5.5Vp-p(H)
10Vp-p(H)
2.4Vp-p(H)
2.1Vp-p(H)
1.2Vp-p(H)
5Vp-p(H)
13Vp-p(H)
0.3Vp-p(H)
0.02Vp-p(H)
0.6Vp-p(H)
2Vp-p(H)
0.5Vp-p(H)
8Vp-p(H)
4Vp-p(H)
11Vp-p(H)

4-9. PRINTED WIRING BOARD

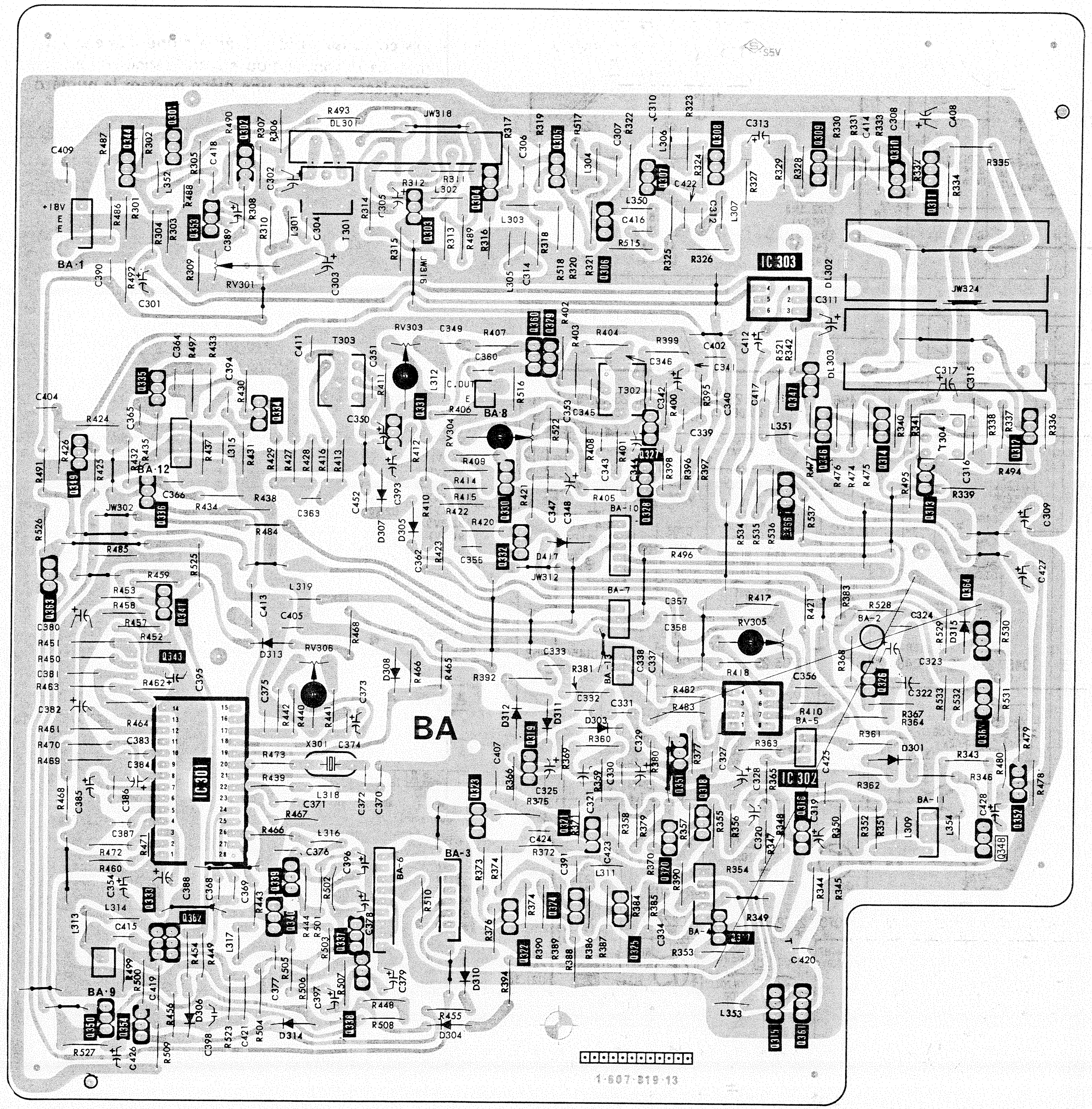
— Conductor Side —

BA [Y · BUF, Y · AMP, R-Y OUT CONT SW, VIDEO AMP, ACC DET B · G · P PROT, COLOR BUF] **HC** (CONTROL)

A B C D E F G

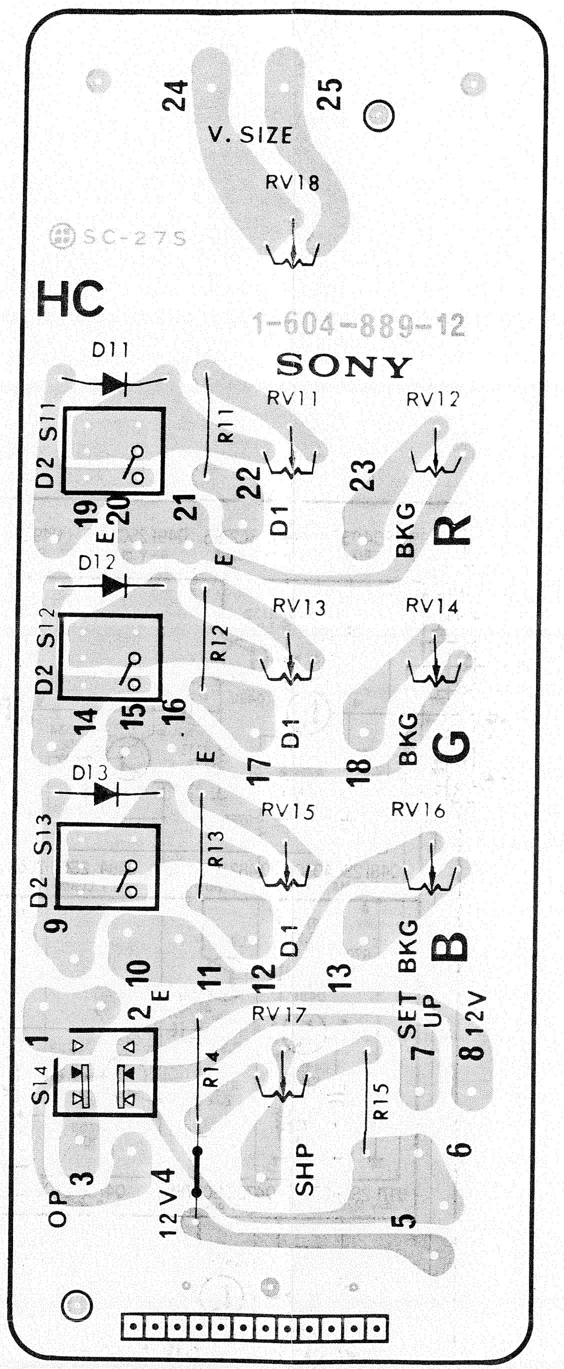
1 2 3 4 5

— BA Board —


BA
IC301
IC302
IC303
BA-1
BA-2
BA-3
BA-5
BA-6
BA-7
BA-8
BA-9
BA-10
BA-11
BA-12
+18V
JW318
JW324
JW302
JW312
RV301
RV303
RV304
RV305
X301
1-607-819-13

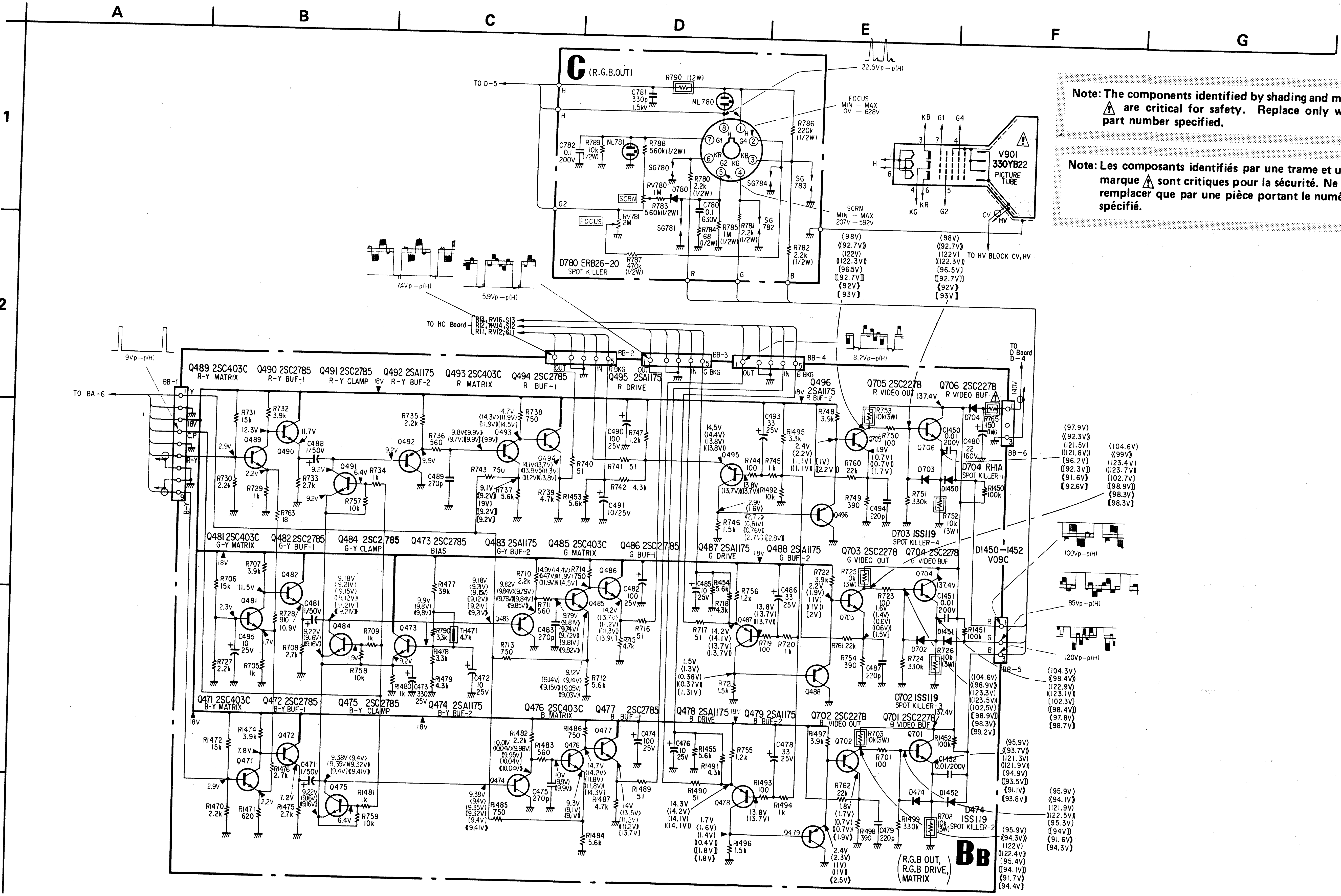
Q · IC	D	ADJ
301		
302 305 308,309		
344 307 310,311		
304		
303		
353 306		
		RV301
IC303		
360,329		
347		RV303
335		
334 346,314,312		
331 327		RV304
349		
330, 328 313		
336 366	307	
	305	
332	417	
363		
341		
	315	
364	313	
		RV303
343		
326	308	
		RV305
IC302 365		
	312,311	
	303	
351	301	
319		
IC301 352		
323 318		
321,320 316		
339		
324,325		
340 322 317		
337		
333,362		
338	310	
315,361		
350,354	306,314,304	

— HC Board —


HC
1-604-889-12
SONY
SC-275
V. SIZE
RV18
24
25
D11
D12
D13
S11
S12
S13
S14
RV11
RV12
RV13
RV14
RV15
RV16
RV17
R11
R12
R13
R14
R15
D2
D1
E
BKG
R
G
B
SET UP
12V
SHP
OP
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

BB [R.G.B OUT, R.G.B DRIVE, MATRIX] **C** (R.G.B OUT)

4-10. SCHEMATIC DIAGRAM


A
B
C
D
E
F
G
1
2
3
4
5
C (R.G.B.OUT)
TO D-5
R790 1(2W)
C781 330p 1.5kV
NL780
22.5Vp-p(H)
FOCUS MIN - MAX 0V - 628V
R786 220k (1/2W)
C782 0.1 200V
R789 10k (1/2W)
NL781
R788 560k(1/2W)
SG780
RV780 1M
D780
R780 2.2k (1/2W)
SG784
SG 783
SCRN
R783 560k(1/2W)
C780 0.1 630V
FOCUS
RV781 2M
SG781
R784 68 (1/2W)
R785 1M (1/2W)
R781 2.2k (1/2W)
SG 782
R782 2.2k (1/2W)
R787 470k (1/2W)
D780 ERB26-20 SPOT KILLER
SCRN MIN - MAX 207V - 592V
KB G1 G4
V901 330YB22 PICTURE TUBE
KR KG G2
CV HV
TO HV BLOCK CV,HV
(98V) ((92.7V)) (122V) ((122.3V)) (96.5V) [92.7V] (92V) [93V]
7.4Vp-p(H)
5.9Vp-p(H)
TO HC Board
RI3, RVI6, SI3
RI2, RVI4, SI2
RI1, RVI2, SI1
BB-2
BB-3
BB-4
8.2Vp-p(H)
9Vp-p(H)
TO BA-6
BB-1
Q489 2SC403C R-Y MATRIX
Q490 2SC2785 R-Y BUF-1
Q491 2SC2785 R-Y CLAMP
Q492 2SA1175 R-Y BUF-2
Q493 2SC403C R MATRIX
Q494 2SC2785 R BUF-1
Q495 2SA1175 R DRIVE
Q496 2SA1175 R BUF-2
Q705 2SC2278 R VIDEO OUT
Q706 2SC2278 R VIDEO BUF
TO D Board D-4
R731 15k
R732 3.9k
R735 2.2k
R738 750
C488 1/50V
R734 1k
R736 560
C489 270p
R743 750
R737 5.6k
R739 4.7k
R1453 5.6k
R740 51
R741 51
R742 4.3k
C490 100 25V
R747 1.2k
C491 10/25V
R730 2.2k
R729 1k
R733 2.7k
R757 10k
R763 18
R744 100
R745 1k
R1492 10k
R746 1.5k
C493 33 25V
R1495 3.3k
R748 3.9k
R753 10k(3W)
R750 100
R760 22k
R749 390
C494 220p
R751 330k
R752 10k (3W)
C1450 0.01 200V
C480 22 160V
R765 150 (1W)
D704
D703
D1450
D704 RH1A SPOT KILLER-1
R1450 100k
D703 1SS119 SPOT KILLER-4
BB-6
(97.9V) ((92.3V)) (121.5V) ((121.8V)) (96.2V) [92.3V] (91.6V) [92.6V]
(104.6V) ((99V)) (123.4V) ((123.7V)) (102.7V) [98.9V] (98.3V) [98.3V]
100Vp-p(H)
85Vp-p(H)
120Vp-p(H)
D1450-1452 V09C
Q481 2SC403C G-Y MATRIX
Q482 2SC2785 G-Y BUF-1
Q484 2SC2785 G-Y CLAMP
Q473 2SC2785 BIAS
Q483 2SA1175 G-Y BUF-2
Q485 2SC403C G MATRIX
Q486 2SC2785 G BUF-1
Q487 2SA1175 G DRIVE
Q488 2SA1175 G BUF-2
Q703 2SC2278 G VIDEO OUT
Q704 2SC2278 G VIDEO BUF
R707 3.9k
R706 15k
R728 910
C481 1/50V
C495 10 25V
R708 2.7k
R727 2.2k
R705 1k
R709 1k
R758 10k
R1477 39k
R790 3.3k
TH471 4.7k
R1478 3.3k
R1479 4.3k
R1480 1k
C473 330
C472 10 25V
R710 2.2k
R714 750
R711 560
R713 750
C483 270p
C482 100 25V
R716 51
R715 4.7k
R712 5.6k
C485 10 25V
R1454 5.6k
R718 4.3k
R756 1.2k
C486 33 25V
R717 51
R719 100
R720 1k
R721 1.5k
R722 3.9k
R725 10k (3W)
R723 100
R761 22k
R754 390
C487 220p
R724 330k
R726 10k (3W)
C1451 0.01 200V
D1451
D702
R1451 100k
BB-5
D702 1SS119 SPOT KILLER-3
(104.3V) ((98.4V)) (122.9V) ((123.1V)) (102.3V) [98.4V] (97.8V) [98.7V]
(104.6V) ((98.9V)) (123.3V) ((123.5V)) (102.5V) [98.9V] (98.3V) [99.2V]
Q471 2SC403C B-Y MATRIX
Q472 2SC2785 B-Y BUF-1
Q475 2SC2785 B-Y CLAMP
Q474 2SA1175 B-Y BUF-2
Q476 2SC403C B MATRIX
Q477 2SC2785 B BUF-1
Q478 2SA1175 B DRIVE
Q479 2SA1175 B BUF-2
Q702 2SC2278 B VIDEO OUT
Q701 2SC2278 B VIDEO BUF
R1474 3.9k
R1472 15k
R1476 2.7k
C471 1/50V
R1470 2.2k
R1471 620
R1475 2.7k
R1481 1k
R759 10k
R1482 2.2k
R1483 560
R1486 750
C474 100 25V
R1485 750
C475 270p
R1487 4.7k
R1489 51
R1484 5.6k
C476 10 25V
R1455 5.6k
R1491 4.3k
R755 1.2k
C478 33 25V
R1490 51
R1493 100
R1494 1k
R1496 1.5k
R1497 3.9k
R703 10k(3W)
R701 100
R1452 100k
C1452 0.01/200V
R762 22k
R1498 390
C479 220p
R1499 330k
R702 10k (3W)
D474
D1452
D474 1SS119 SPOT KILLER-2
(95.9V) ((93.7V)) (121.3V) ((121.9V)) (94.9V) [93.5V] (91.1V) [93.8V]
(95.9V) ((94.1V)) (121.9V) ((122.5V)) (95.3V) [94V] (91.6V) (94.3V)
(95.9V) ((94.3V)) (122V) ((122.4V)) (95.4V) [94.1V] (91.7V) [94.4V]
18V
137.4V
140V
BB (R.G.B OUT, R.G.B DRIVE, MATRIX)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-11. PRINTED WIRING BOARD

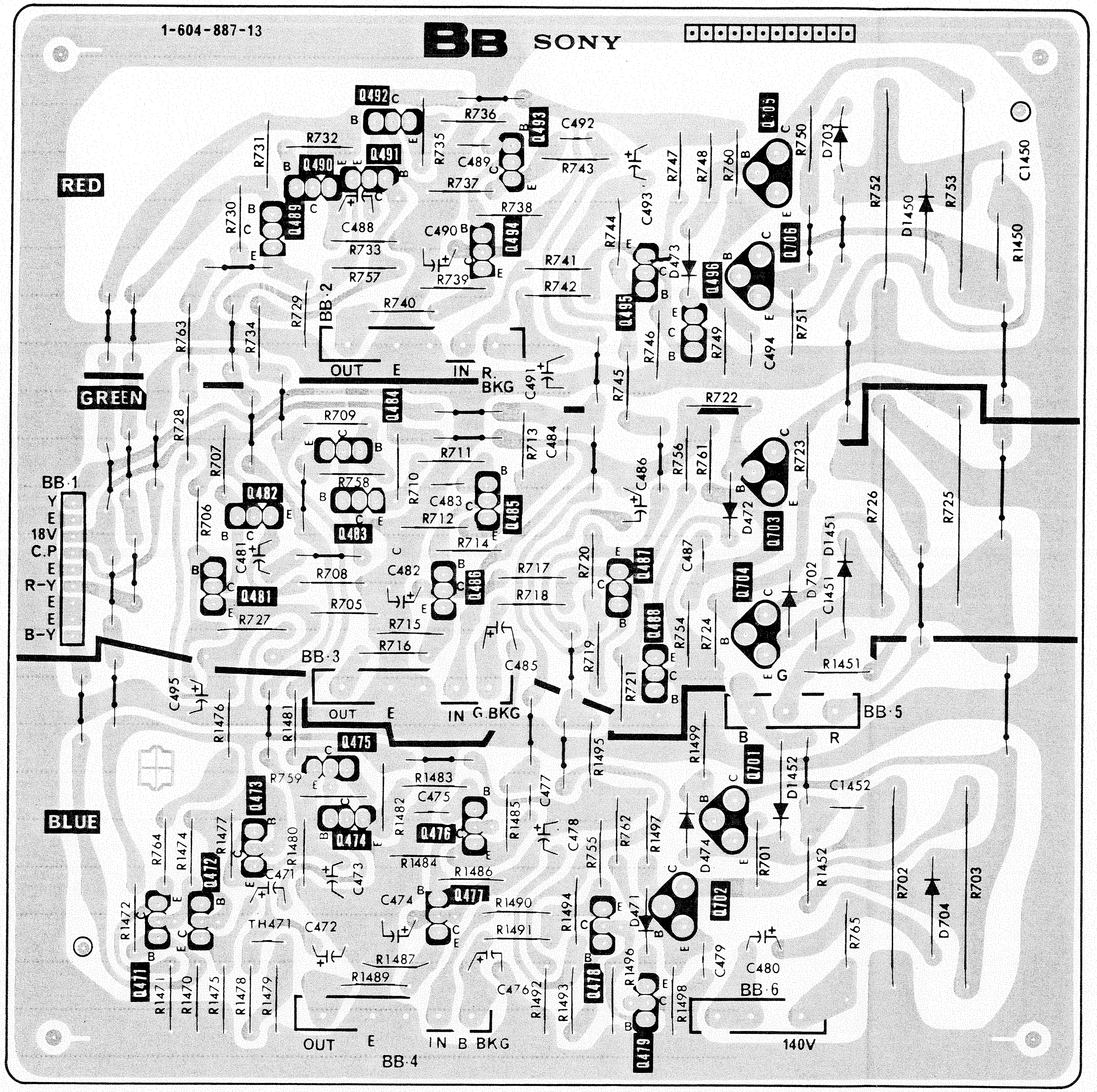
– Conductor Side –

A B C D E F G

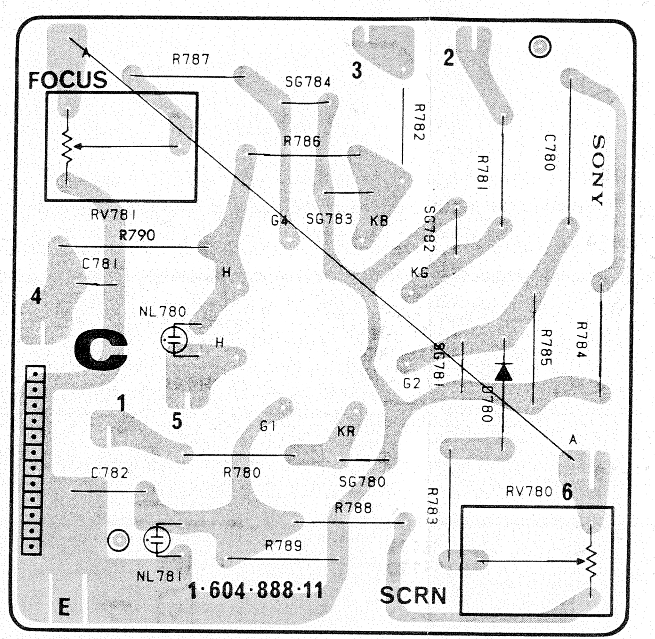
1 2 3 4 5

– BB Board –

Q	D
492	703
493 705	
490,491	
	1450
489	
494 706	
495	473
496	
484	
703	
482 483 485	
	1451
481 486 487	702
704	
488	
475	
	1452
701	
474 476	474
473	
477 702	704
471,472 478	471
479	

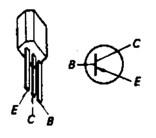

1-604-887-13
BB SONY
RED
GREEN
BLUE
BB-1
Y
E
18V
C.P
E
R-Y
E
E
B-Y
BB-2
OUT E IN R. BKG
BB-3
OUT E IN G BKG
BB-4
OUT E IN B BKG
BB-5
BB-6
140V
Q492
Q490
Q491
Q489
Q493
Q494
Q495
Q496
Q705
Q706
Q484
Q482
Q483
Q481
Q485
Q486
Q487
Q488
Q703
Q704
Q475
Q473
Q474
Q476
Q472
Q477
Q471
Q478
Q479
Q701
Q702
R731
R732
R736
R735
R737
R738
R733
R757
R739
R740
R741
R742
R743
R730
R729
R734
R763
R728
R707
R706
R709
R711
R758
R710
R712
R713
R714
R708
R705
R727
R715
R716
R717
R718
R720
R719
R721
R722
R723
R744
R745
R746
R747
R748
R749
R750
R751
R752
R753
R756
R760
R761
R754
R724
R725
R726
R759
R762
R755
R764
R765
R701
R702
R703
R1450
R1451
R1452
R1470
R1471
R1472
R1474
R1475
R1476
R1477
R1478
R1479
R1480
R1481
R1482
R1483
R1484
R1485
R1486
R1487
R1489
R1490
R1491
R1492
R1493
R1494
R1495
R1496
R1497
R1498
R1499
C488
C489
C490
C491
C492
C493
C494
C481
C482
C483
C484
C485
C486
C487
C495
C471
C472
C473
C474
C475
C476
C477
C478
C479
C480
C1450
C1451
C1452
D703
D1450
D473
D472
D1451
D702
D1452
D474
D471
D704
TH471

– C Board –

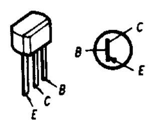

FOCUS
R787
SG784
3
2
R782
R781
C780
SONY
R786
RV781
R790
G4
SG783
KB
SG782
KG
C781
H
4
NL780
H
C
R785
R784
SG781
G2
D780
1
5
G1
KR
C782
R780
SG780
R788
R783
RV780
6
A
NL781
R789
1·604·888·11
SCRN
E

4-12. SEMICONDUCTORS

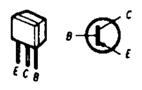
2SA1026
2SA1027R



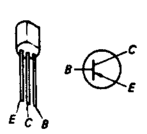
2SA1115



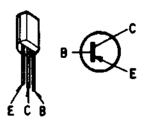
2SA1175



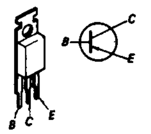
2SA684
2SA733
2SA773



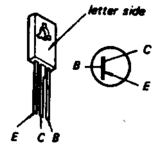
2SA844



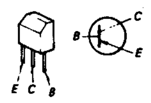
2SB566A
2SB858
2SB861



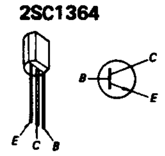
2SB649
2SB649A


letter side
B
C
E
E C B

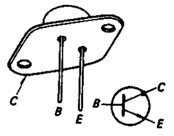
2SB734



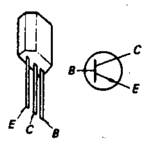
2SC1363
2SC1364



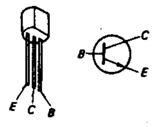
2SC1413
2SC1413A



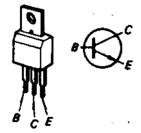
2SC1636
2SC403C



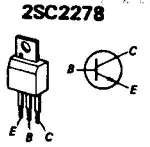
2SC1670
2SC1811
2SC1815
2SC1890A
2SC2383
2SC2603
2SC945



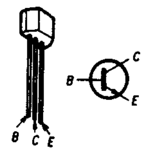
2SC1810



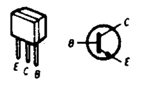
2SC2278



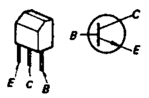
2SC2458



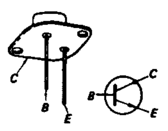
2SC2785



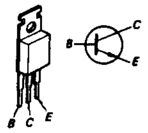
2SC2959
2SD774



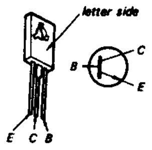
2SC867A



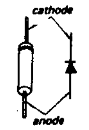
2SD1134
2SD1138
2SD476A



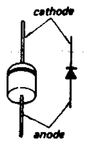
2SD669
2SD669A


letter side
B
C
E
E C B

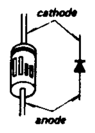
10E2
1S1555
1S2076
1S2473
1T22A
1T22AM
RD10E-N3
RD15J-N2
RD5.1E-N2


cathode
anode

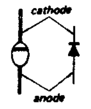
1SS119
1SS120


cathode
anode

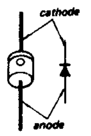
EQA01-05T1
S1B01-02


cathode
anode

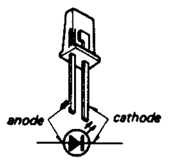
ERB26-20
ERC26-15S
GH3F
GU3A
U05E
U05G
V11N


cathode
anode

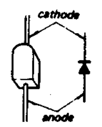
ERD28-08S


cathode
anode

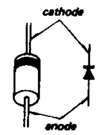
GL9NG2


anode
cathode

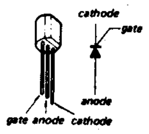
HF1C


cathode
anode

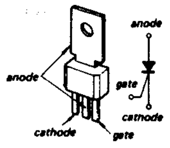
RH1
RH1A
RH1C


cathode
anode

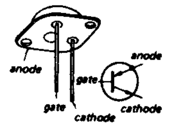
CR02AM


cathode
gate
anode
gate anode cathode

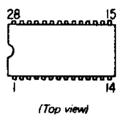
CV12E


anode
anode
gate
cathode
cathode
gate

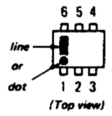
SG264A


anode
anode
gate
gate
cathode
cathode

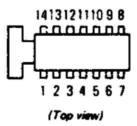
μPC1365C


28
15
1
14
(Top view)

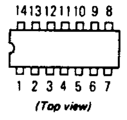
CX130


6 5 4
line
or
dot
1 2 3
(Top view)

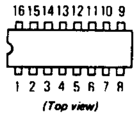
CX158


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

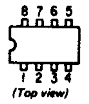
TC4001BP
TC4011BP
TC4023BP
TC4024BP


14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)

TC4520BP
TC4528BP


16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)

μPC4558C


8 7 6 5
1 2 3 4
(Top view)

MEMO

SECTION 5

EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

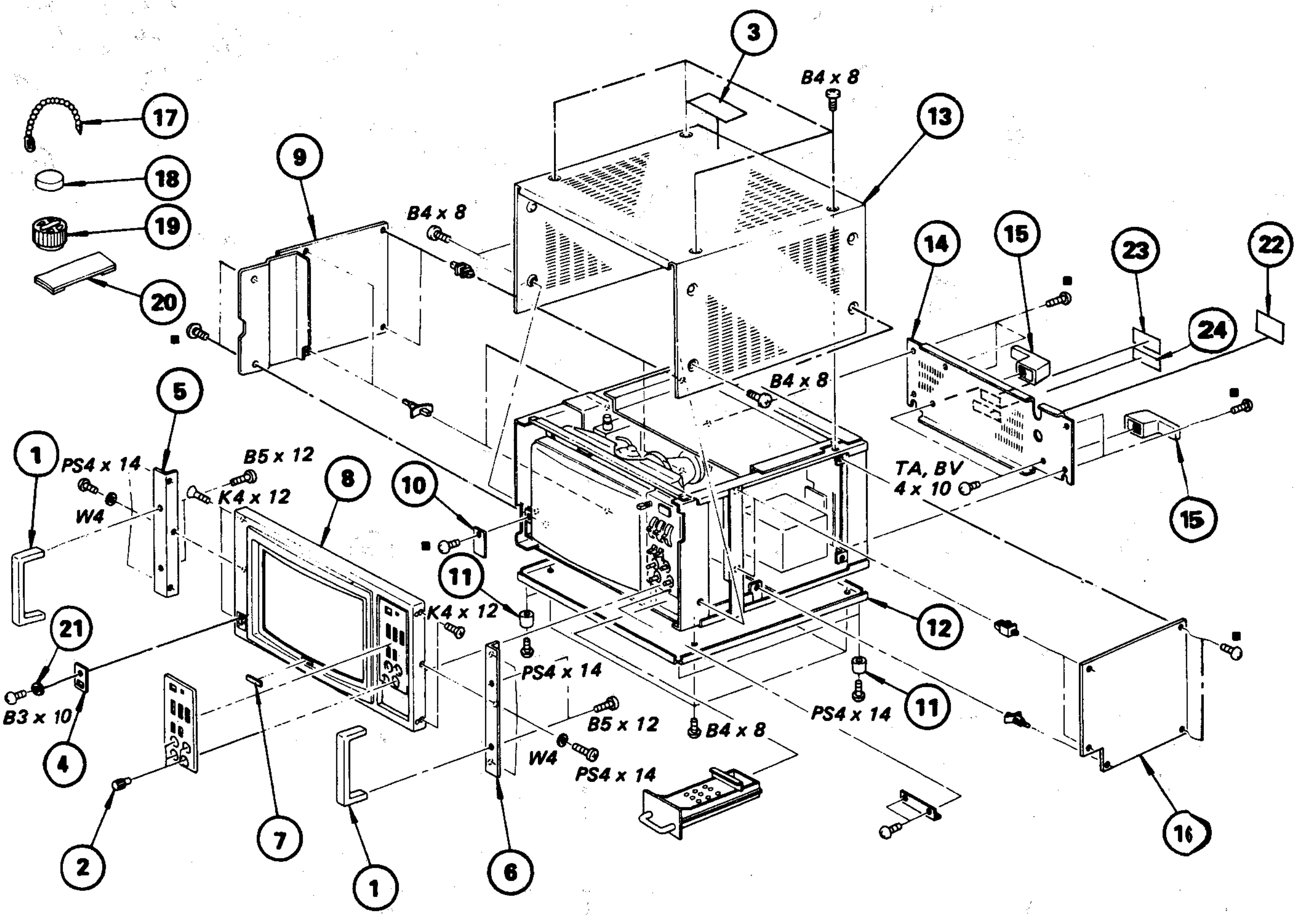
- Items marked " 🌢 " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(1) CABINET

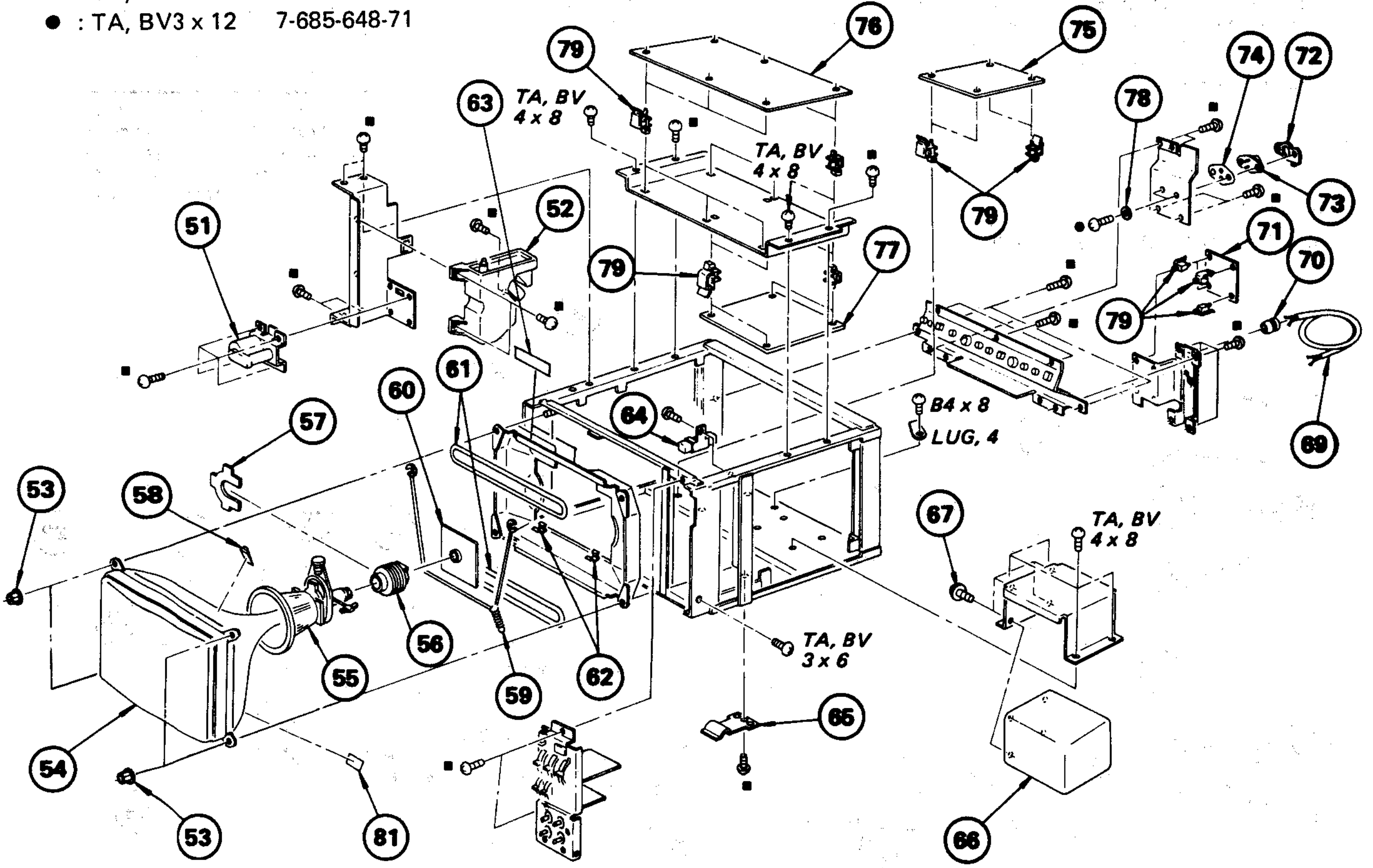
■ : TA, BV3 x 8   7-685-646-71



No.	Part No.	Description	Remark
1	4-337-212-00	HANDLE	
2	X-4318-505-0	KNOB ASSY, CONTROL	
3	3-703-079-21	LABEL, CAUTION (BACK)	
4	4-353-615-00	COVER	
5	🌢:4-335-964-00	BASE (LEFT), HANDLE	
6	🌢:4-335-963-00	BASE (RIGHT), HANDLE	
7	3-701-845-00	EMBLEN, SONY	
8	X-4361-303-0	BEZEL ASSY	
9	🌢:A-1345-382-A	D BOARD, COMPLETE	
10	🌢:1-604-884-00	Z BOARD	
11	X-483-890-29	FOOT, RUBBER	
12	🌢:4-353-645-00	COVER (LOWER)	
13	4-353-644-00	COVER (UPPER)	
14	4-361-305-00	COVER, BACK	
15	🌢:4-304-418-00	CLAMP, CORD	
16	🌢:A-1135-178-A	BA BOARD, COMPLETE	
17	4-308-870-00	CLIP LEAD WIRE	
18	1-452-032-00	MAGNET, DISC	
19	1-452-094-00	MAGNET ROTATABLE DISK; 15mmø	
20	X-4308-815-0	PERMALLOY ASSY, CONVERGENCE	
21	3-701-440-11	WASHER, 3.5	
22	🌢:4-361-304-00	LABEL, MODEL NUMBER (LARGE) (CND)	
23	3-701-829-01	LABEL, X-RAY CERTIF. (CND)	
24	3-703-228-00	LABEL, CAUTION	

(2) PICTURE TUNE

■ : TA, BV3 x 8 7-685-646-71
● : TA, BV3 x 12 7-685-648-71



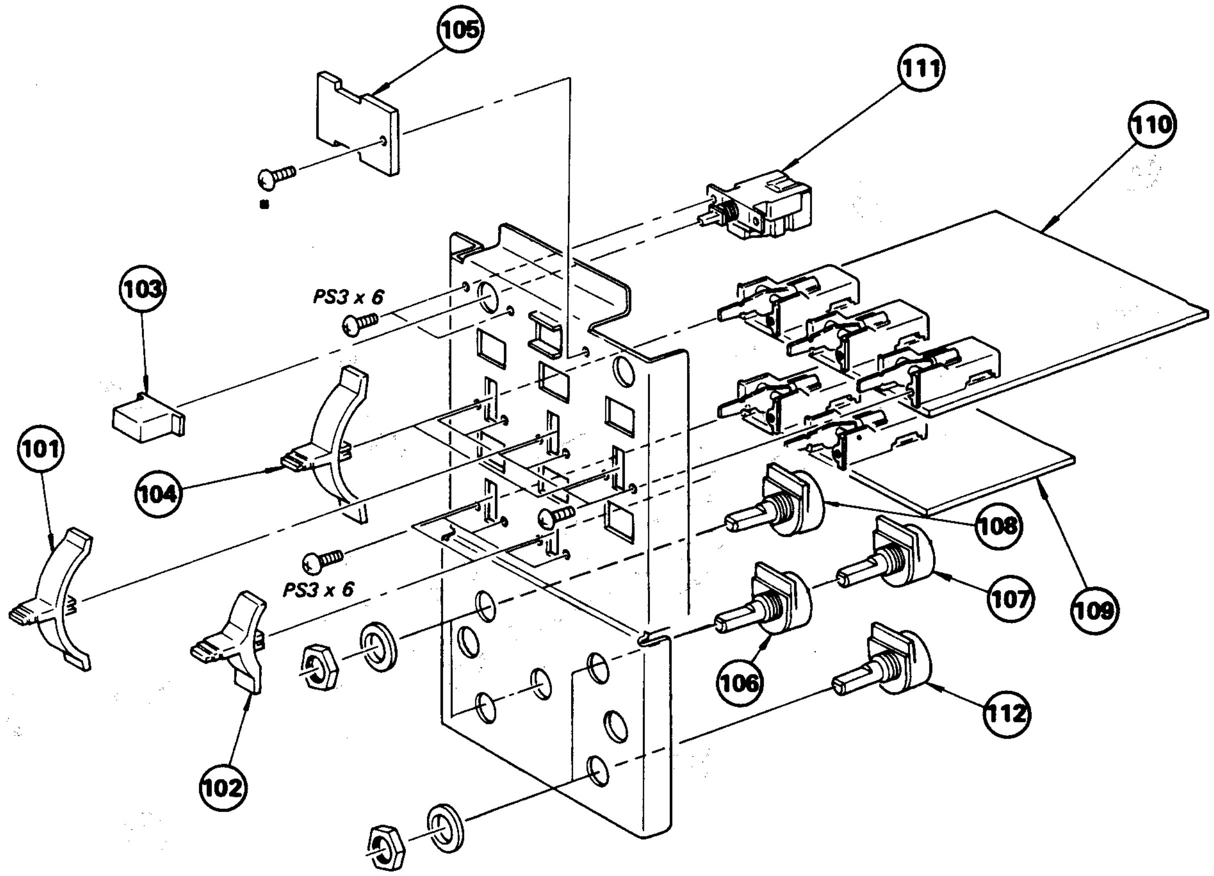
No.		Part No.	Description	Remark
51	⚠	1-439-208-12	TRANSFORMER, FLYBACK	
52	⚠	1-453-081-14	HIGH-VOLTAGE BLOCK, DC	
53		4-306-034-00	FLANGE NUT, (B) 5MM	
54	⚠	8-738-312-05	CRT (330YB22)	
55	⚠	1-451-160-32	DEFLECTION YOKE (SY-97)	
56	⚠	1-452-214-21	NECK ASSY, CRT	
57		1-452-146-00	MAGNET, BMC	
58		3-703-003-00	SPACER, DY	
59		4-303-774-XX	SPRING	
60	♠	A-1330-397-A	C BOARD, COMPLETE	
61	⚠	1-426-086-12	COIL, DEGAUSSING	
62	♠	4-309-624-00	TERMINAL, EARTH	
63	♠	4-353-649-00	CUSHION	
64		1-205-608-00	RES, CEMENT 180 (20W)	
65	♠	4-353-604-00	SPRING, LEAF	
66	⚠	1-447-391-11	TRANSFORMER, POWER	
67		3-701-810-21	SCREW, TERMINAL	
69	⚠	1-534-517-23	AC CORD	
70	⚠	2-045-063-00	STOPPER, CORD	
71	♠	1-604-882-00	FB BOARD	
72	♠	4-314-938-01	RETAINER (TO-3), TRANSISTOR	
73		8-729-311-42	TRANSISTOR 2SC1114	
74		3-701-353-00	SPACER, MICA	
75	♠	A-1245-162-A	FA BOARD, COMPLETE	
76	♠	A-1347-007-A	V BOARD, COMPLETE	
77	♠	A-1130-200-A	BB BOARD, COMPLETE	
78		3-701-609-00	BUSHING (B), TR	
79	♠	3-703-141-00	HOLDER, PCB	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(3) CONTROL BLOCK

■ : TA, BV3 x 8   7-685-646-71



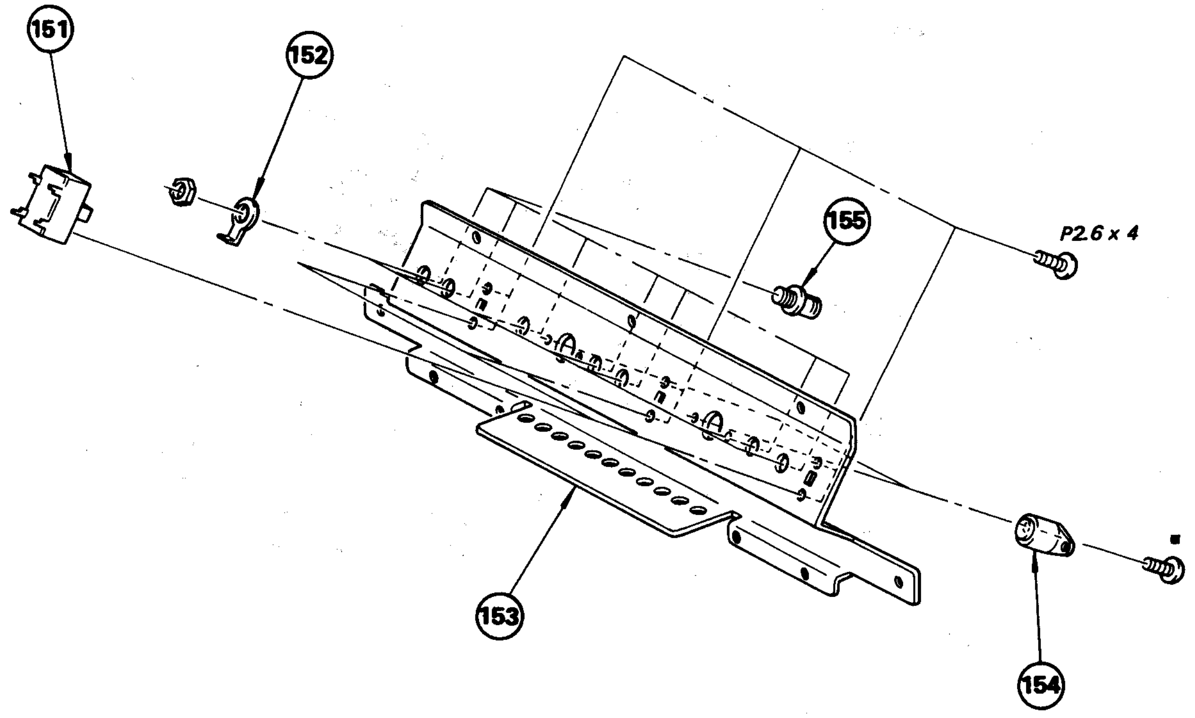
No.	Part No.	Description	Remark
101	4-347-105-00	KNOB (4P), LEVER SWITCH	
102	4-335-954-02	KNOB (2P), LEVER SWITCH	
103	4-335-962-00	PUSH BUTTON	
104	4-335-953-02	KNOB (3P), LEVER SWITCH	
105	♠:1-604-885-00	X BOARD	
106	1-222-524-00	RES, VAR, CARBON 3.0K	
107	1-224-619-00	RES, VAR, CARBON 5K	
108	1-226-687-00	RES, VAR 500	
109	♠ 1-604-880-00	HB BOARD	
110	♠ 1-604-879-00	HA BOARD	
111	⚠ 1-552-454-11	SWITCH, PUSH (POWER)	
112	1-224-027-XX	RES, VAR, CARBON 500.0	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(4) CONNECTOR PANEL

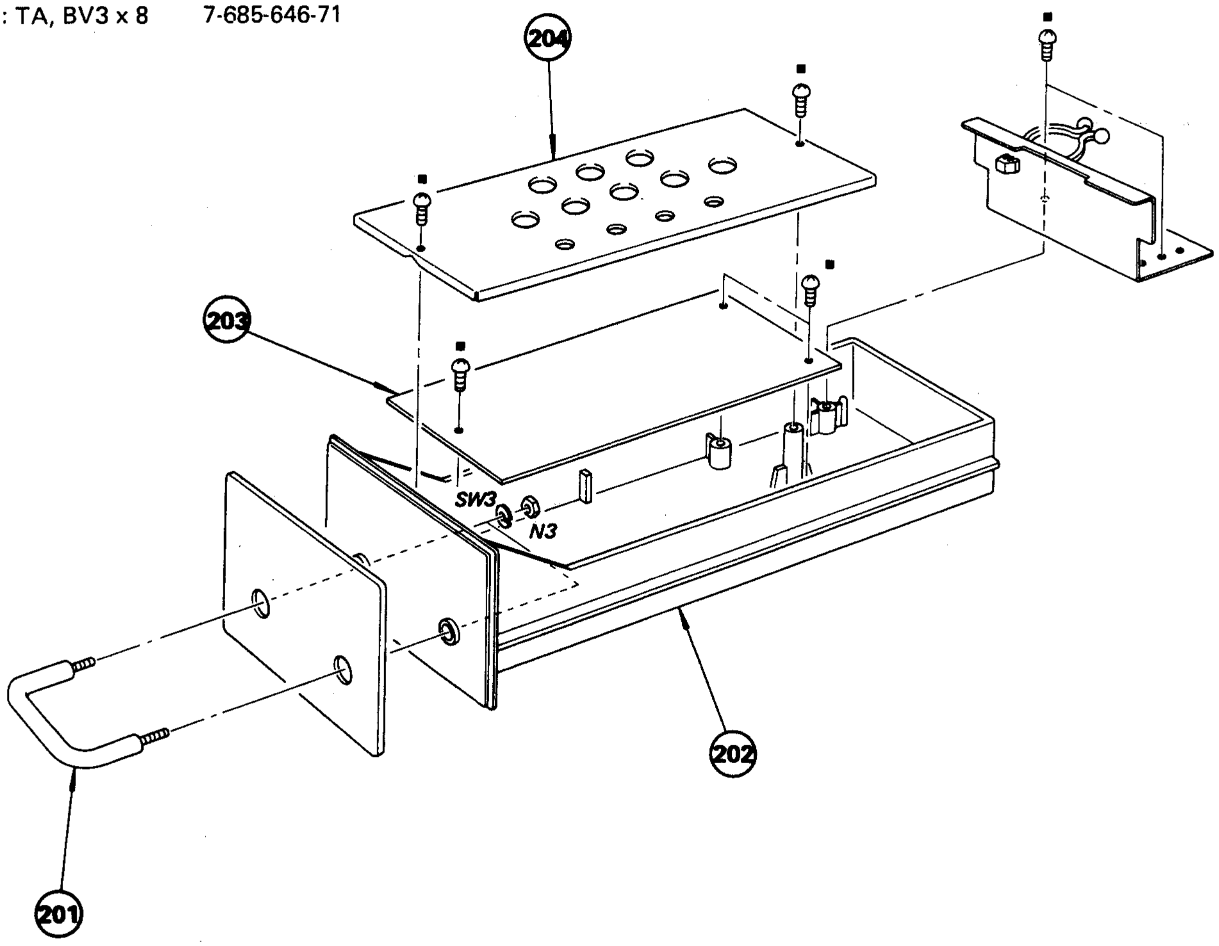
■ : TA, BV3 x 8   7-685-646-71


151
152
155
P2.6 x 4
153
■
154

No.	Part No.	Description	Remark
151	1-516-777-XX	SLIDE SWITCH	
152	4-325-529-00	TERMINAL, CONNECTOR	
153	4-353-614-00	PANEL, CONNECTOR	
154	1-509-718-00	DIN 4P SOCKET	
155	1-561-167-00	CONNECTOR	

(5) HC BLOCK

■ : TA, BV3 x 8 7-685-646-71



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
201	4-335-904-02	HANDLE (S)		203	♠:1-604-889-00	HC BOARD	
202	X-4353-601-3	CASE ASSY, HC		204	4-353-637-00	COVER (HC)	

SECTION 3
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
	♠:A-1130-200-A	BB BOARD, COMPLETE ******************				
		CONNECTOR				
BB1	♠:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P				
BB2	♠:1-508-767-00	5P PLUG				
BB3	♠:1-508-767-00	5P PLUG				
BB4	♠:1-508-767-00	5P PLUG				
BB5	1-508-765-00	3P PLUG (M)				
BB6	1-508-765-00	3P PLUG (M)				
		CAPACITOR				
C471	1-123-228-00	ELECT	1MF	20%	50V	
C472	1-123-356-00	ELECT	10MF	20%	25V	
C473	1-123-335-00	ELECT	330MF	20%	25V	
C474	1-123-333-00	ELECT	100MF	20%	25V	
C475	1-102-980-00	CERAMIC	270PF	5%	50V	
C476	1-123-356-00	ELECT	10MF	20%	25V	
C478	1-123-331-00	ELECT	33MF	20%	25V	
C479	1-102-978-00	CERAMIC	220PF	5%	50V	
C480	1-123-253-00	ELECT	22MF		160V	
C481	1-123-228-00	ELECT	1MF	20%	50V	
C482	1-123-333-00	ELECT	100MF	20%	25V	
C483	1-102-980-00	CERAMIC	270PF	5%	50V	
C485	1-123-356-00	ELECT	10MF	20%	25V	
C486	1-123-331-00	ELECT	33MF	20%	25V	
C487	1-102-978-00	CERAMIC	220PF	5%	50V	
C488	1-123-228-00	ELECT	1MF	20%	50V	
C489	1-102-980-00	CERAMIC	270PF	5%	50V	
C490	1-123-333-00	ELECT	100MF	20%	25V	
C491	1-123-356-00	ELECT	10MF	20%	25V	
C493	1-123-331-00	ELECT	33MF	20%	25V	
C494	1-102-978-00	CERAMIC	220PF	5%	50V	
C495	1-123-356-00	ELECT	10MF	20%	25V	
C1450	1-108-421-00	MYLAR	0.01MF	10%	200V	
C1451	1-108-421-00	MYLAR	0.01MF	10%	200V	
C1452	1-108-421-00	MYLAR	0.01MF	10%	200V	
		DIODE				
D474	8-719-911-19	DIODE 1SS119				
D702	8-719-911-19	DIODE 1SS119				
D703	8-719-911-19	DIODE 1SS119				
D704	8-719-300-76	DIODE RH1A				
D1450	8-719-900-93	DIODE V09C				
D1451	8-719-900-93	DIODE V09C				
D1452	8-719-900-93	DIODE V09C				
		TRANSISTOR				
Q471	8-729-603-50	TRANSISTOR 2SC403SP				
Q472	8-729-178-54	TRANSISTOR 2SC2785				
Q473	8-729-178-54	TRANSISTOR 2SC2785				
Q474	8-729-117-54	TRANSISTOR 2SA1175				
Q475	8-729-178-54	TRANSISTOR 2SC2785				

Ref.No.	Part No.	Descrition				Remark
Q476	8-729-603-50	TRANSISTOR 2SC403SP				
Q477	8-729-178-54	TRANSISTOR 2SC2785				
Q478	8-729-117-54	TRANSISTOR 2SA1175				
Q479	8-729-117-54	TRANSISTOR 2SA1175				
Q481	8-729-603-50	TRANSISTOR 2SC403SP				
Q482	8-729-178-54	TRANSISTOR 2SC2785				
Q483	8-729-117-54	TRANSISTOR 2SA1175				
Q484	8-729-178-54	TRANSISTOR 2SC2785				
Q485	8-729-603-50	TRANSISTOR 2SC403SP				
Q486	8-729-178-54	TRANSISTOR 2SC2785				
Q487	8-729-117-54	TRANSISTOR 2SA1175				
Q488	8-729-117-54	TRANSISTOR 2SA1175				
Q489	8-729-603-50	TRANSISTOR 2SC403SP				
Q490	8-729-178-54	TRANSISTOR 2SC2785				
Q491	8-729-178-54	TRANSISTOR 2SC2785				
Q492	8-729-117-54	TRANSISTOR 2SA1175				
Q493	8-729-603-50	TRANSISTOR 2SC403SP				
Q494	8-729-178-54	TRANSISTOR 2SC2785				
Q495	8-729-117-54	TRANSISTOR 2SA1175				
Q496	8-729-117-54	TRANSISTOR 2SA1175				
Q701	8-729-322-78	TRANSISTOR 2SC2278				
Q702	8-729-322-78	TRANSISTOR 2SC2278				
Q703	8-729-322-78	TRANSISTOR 2SC2278				
Q704	8-729-322-78	TRANSISTOR 2SC2278				
Q705	8-729-322-78	TRANSISTOR 2SC2278				
Q706	8-729-322-78	TRANSISTOR 2SC2278				
		RESISTOR				
R701	1-246-449-00	CARBON	100	5%	1/4W	
R702	1-206-749-00	METAL	10K	5%	3W	F
R703	1-206-749-00	METAL	10K	5%	3W	F
R705	1-246-473-00	CARBON	1K	5%	1/4W	
R706	1-246-501-00	CARBON	15K	5%	1/4W	
R707	1-246-487-00	CARBON	3.9K	5%	1/4W	
R708	1-246-483-00	CARBON	2.7K	5%	1/4W	
R709	1-246-473-00	CARBON	1K	5%	1/4W	
R710	1-246-481-00	CARBON	2.2K	5%	1/4W	
R711	1-246-467-00	CARBON	560	5%	1/4W	
R712	1-246-491-00	CARBON	5.6K	5%	1/4W	
R713	1-246-470-00	CARBON	750	5%	1/4W	
R714	1-246-470-00	CARBON	750	5%	1/4W	
R715	1-246-489-00	CARBON	4.7K	5%	1/4W	
R716	1-246-442-00	CARBON	51	5%	1/4W	
R717	1-246-442-00	CARBON	51	5%	1/4W	
R718	1-246-488-00	CARBON	4.3K	5%	1/4W	
R719	1-246-449-00	CARBON	100	5%	1/4W	
R720	1-246-473-00	CARBON	1K	5%	1/4W	
R721	1-246-477-00	CARBON	1.5K	5%	1/4W	
R722	1-246-487-00	CARBON	3.9K	5%	1/4W	
R723	1-246-449-00	CARBON	100	5%	1/4W	
R724	1-246-533-00	CARBON	330K	5%	1/4W	
R725	1-206-749-00	METAL	10K	5%	3W	F
R726	1-206-749-00	METAL	10K	5%	3W	F

Ref.No.	Part No.	Description				Remark
R727	1-246-481-00	CARBON	2.2K	5%	1/4W	
R728	1-246-472-00	CARBON	910	5%	1/4W	
R729	1-246-473-00	CARBON	1K	5%	1/4W	
R730	1-246-481-00	CARBON	2.2K	5%	1/4W	
R731	1-246-501-00	CARBON	15K	5%	1/4W	
R732	1-246-487-00	CARBON	3.9K	5%	1/4W	
R733	1-246-483-00	CARBON	2.7K	5%	1/4W	
R734	1-246-473-00	CARBON	1K	5%	1/4W	
R735	1-246-481-00	CARBON	2.2K	5%	1/4W	
R736	1-246-467-00	CARBON	560	5%	1/4W	
R737	1-246-491-00	CARBON	5.6K	5%	1/4W	
R738	1-246-470-00	CARBON	750	5%	1/4W	
R739	1-246-489-00	CARBON	4.7K	5%	1/4W	
R740	1-246-442-00	CARBON	51	5%	1/4W	
R741	1-246-442-00	CARBON	51	5%	1/4W	
R742	1-246-488-00	CARBON	4.3K	5%	1/4W	
R743	1-246-470-00	CARBON	750	5%	1/4W	
R744	1-246-449-00	CARBON	100	5%	1/4W	
R745	1-246-473-00	CARBON	1K	5%	1/4W	
R746	1-246-477-00	CARBON	1.5K	5%	1/4W	
R747	1-246-475-00	CARBON	1.2K	5%	1/4W	
R748	1-246-487-00	CARBON	3.9K	5%	1/4W	
R749	1-246-463-00	CARBON	390	5%	1/4W	
R750	1-246-449-00	CARBON	100	5%	1/4W	
R751	1-246-533-00	CARBON	330K	5%	1/4W	
R752	1-206-749-00	METAL	10K	5%	3W	F
R753	1-206-749-00	METAL	10K	5%	3W	F
R754	1-246-463-00	CARBON	390	5%	1/4W	
R755	1-246-475-00	CARBON	1.2K	5%	1/4W	
R756	1-246-475-00	CARBON	1.2K	5%	1/4W	
R757	1-246-497-00	CARBON	10K	5%	1/4W	
R758	1-246-497-00	CARBON	10K	5%	1/4W	
R759	1-246-497-00	CARBON	10K	5%	1/4W	
R760	1-246-505-00	CARBON	22K	5%	1/4W	
R761	1-246-505-00	CARBON	22K	5%	1/4W	
R762	1-246-505-00	CARBON	22K	5%	1/4W	
R763	1-246-431-00	CARBON	18	5%	1/4W	
R765 ⚠.	1-213-133-61	METAL	150	5%	1W	F
R790	1-246-485-00	CARBON	3.3K	5%	1/4W	
R1450	1-246-521-00	CARBON	100K	5%	1/4W	
R1451	1-246-521-00	CARBON	100K	5%	1/4W	
R1452	1-246-521-00	CARBON	100K	5%	1/4W	
R1453	1-246-491-00	CARBON	5.6K	5%	1/4W	
R1454	1-246-491-00	CARBON	5.6K	5%	1/4W	
R1455	1-246-491-00	CARBON	5.6K	5%	1/4W	
R1470	1-246-481-00	CARBON	2.2K	5%	1/4W	
R1471	1-246-468-00	CARBON	620	5%	1/4W	
R1472	1-246-503-00	CARBON	18K	5%	1/4W	
R1474	1-246-487-00	CARBON	3.9K	5%	1/4W	
R1475	1-246-483-00	CARBON	2.7K	5%	1/4W	
R1476	1-246-483-00	CARBON	2.7K	5%	1/4W	
R1477	1-246-511-00	CARBON	39K	5%	1/4W	
R1478	1-246-485-00	CARBON	3.3K	5%	1/4W	

Ref.No.	Part No.	Descrition				Remark
R1479	1-246-512-00	CARBON	43K	5%	1/4W	
R1480	1-246-473-00	CARBON	1K	5%	1/4W	
R1481	1-246-473-00	CARBON	1K	5%	1/4W	
R1482	1-246-481-00	CARBON	2.2K	5%	1/4W	
R1483	1-246-467-00	CARBON	560	5%	1/4W	
R1484	1-246-491-00	CARBON	5.6K	5%	1/4W	
R1485	1-246-470-00	CARBON	750	5%	1/4W	
R1486	1-246-470-00	CARBON	750	5%	1/4W	
R1487	1-246-489-00	CARBON	4.7K	5%	1/4W	
R1489	1-246-442-00	CARBON	51	5%	1/4W	
R1490	1-246-442-00	CARBON	51	5%	1/4W	
R1491	1-246-488-00	CARBON	4.3K	5%	1/4W	
R1492	1-246-497-00	CARBON	10K	5%	1/4W	
R1493	1-246-449-00	CARBON	100	5%	1/4W	
R1494	1-246-473-00	CARBON	1K	5%	1/4W	
R1495	1-246-485-00	CARBON	3.3K	5%	1/4W	
R1496	1-246-477-00	CARBON	1.5K	5%	1/4W	
R1497	1-246-487-00	CARBON	3.9K	5%	1/4W	
R1498	1-246-463-00	CARBON	390	5%	1/4W	
R1499	1-246-533-00	CARBON	330K	5%	1/4W	

THERMISTOR

TH471 1-800-070-XX THERMISTOR TH-4700

****

♠:A-1135-178-A BA BOARD, COMPLETE

****

CONNECTOR

BA1	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
BA3	♠:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P
BA4	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
BA5	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
BA6	♠:1-560-129-00	PLUG, CONNECTOR (2.5MM) 9P
BA7	♠:1-508-742-00	PIN, CONNECTOR 3P
BA8	♠:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
BA9	♠:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
BA10	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
BA11	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
BA12	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
BA13	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P

CAPACITOR

C301	1-123-333-00	ELECT	100MF	20%	25V
C302	1-123-356-00	ELECT	10MF	20%	50V
C303	1-123-356-00	ELECT	10MF	20%	25V
C304	1-102-978-00	CERAMIC	220PF	5%	50V
C305	1-123-356-00	ELECT	10MF	20%	50V
C306	1-102-971-00	CERAMIC	82PF	5%	50V
C307	1-101-888-00	CERAMIC	68PF	5%	50V
C308	1-101-006-00	CERAMIC	0.047MF		50V
C309	1-123-359-00	ELECT	47MF	20%	50V
C311	1-123-333-00	ELECT	100MF	20%	25V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

BA

Ref.No.	Part No.	Description			Remark
C313	1-123-333-00	ELECT	100MF	20%	25V
C314	1-102-959-00	CERAMIC	22PF	5%	50V
C315	1-102-947-00	CERAMIC	10PF	5%	50V
C316	1-102-947-00	CERAMIC	10PF	5%	50V
C317	1-123-332-00	ELECT	47MF	20%	25V
C319	1-123-328-00	ELECT	4.7MF	20%	25V
C320	1-123-330-00	ELECT	22MF	20%	25V
C321	1-123-332-00	ELECT	47MF	20%	16V
C322	1-123-369-00	ELECT	4.7MF	20%	50V
C323	1-123-379-00	ELECT	0.47MF	20%	50V
C324	1-108-421-00	MYLAR	0.01MF	10%	200V
C327	1-101-004-00	CERAMIC	0.01MF		50V
C328	1-123-356-00	ELECT	10MF	20%	16V
C329	1-123-328-00	ELECT	4.7MF	20%	25V
C330	1-101-004-00	CERAMIC	0.01MF		50V
C331	1-101-004-00	CERAMIC	0.01MF		50V
C332	1-102-959-00	CERAMIC	22PF	5%	50V
C334	1-102-945-00	CERAMIC	8PF	0.5PF	50V
C337	1-101-006-00	CERAMIC	0.047MF		50V
C338	1-101-006-00	CERAMIC	0.047MF		50V
C339	1-101-004-00	CERAMIC	0.01MF		50V
C340	1-102-978-00	CERAMIC	220PF	5%	50V
C341	1-123-356-00	ELECT	10MF	20%	25V
C343	1-101-004-00	CERAMIC	0.01MF		50V
C344	1-123-333-00	ELECT	100MF	20%	25V
C345	1-102-973-00	CERAMIC	100PF	5%	50V
C346	1-101-006-00	CERAMIC	0.047MF		50V
C347	1-101-004-00	CERAMIC	0.01MF		50V
C348	1-123-356-00	ELECT	10MF	20%	16V
C349	1-101-361-00	CERAMIC	150PF	10%	50V
C350	1-123-328-00	ELECT	4.7MF	20%	25V
C351	1-102-971-00	CERAMIC	82PF	5%	50V
C353	1-101-004-00	CERAMIC	0.01MF		50V
C354	1-123-333-00	ELECT	100MF	20%	25V
C355	1-101-004-00	CERAMIC	0.01MF		50V
C356	1-101-004-00	CERAMIC	0.01MF		50V
C357	1-101-004-00	CERAMIC	0.01MF		50V
C358	1-123-379-00	ELECT	0.47MF	20%	50V
C360	1-161-323-00	CERAMIC	0.001MF	10%	50V
C362	1-102-965-00	CERAMIC	39PF	5%	50V
C363	1-101-004-00	CERAMIC	0.01MF		50V
C364	1-101-880-00	CERAMIC	47PF	5%	50V
C365	1-101-006-00	CERAMIC	0.047MF		50V
C366	1-102-953-00	CERAMIC	18PF	5%	50V
C368	1-101-004-00	CERAMIC	0.01MF		50V
C369	1-101-004-00	CERAMIC	0.01MF		50V
C370	1-101-880-00	CERAMIC	47PF	5%	50V
C371	1-102-953-00	CERAMIC	18PF	5%	50V
C372	1-102-852-00	CERAMIC	47PF	5%	50V
C373	1-123-356-00	ELECT	10MF	20%	16V
C374	1-101-006-00	CERAMIC	0.047MF		50V
C375	1-101-006-00	CERAMIC	0.047MF		50V
C376	1-102-963-00	CERAMIC	33PF	5%	50V

Ref.No.	Part No.	Descrition			Remark
C377	1-102-963-00	CERAMIC	33PF	5%	50V
C381	1-108-251-00	MYLAR	0.1MF	5%	50V
C382	1-123-380-00	ELECT	1MF	20%	50V
C383	1-101-004-00	CERAMIC	0.01MF		50V
C384	1-123-382-00	ELECT	3.3MF	20%	50V
C385	1-123-380-00	ELECT	1MF	20%	50V
C386	1-102-963-00	CERAMIC	33PF	5%	50V
C387	1-123-333-00	ELECT	100MF	20%	25V
C388	1-123-332-00	ELECT	47MF	20%	25V
C389	1-123-356-00	ELECT	10MF	20%	16V
C390	1-101-006-00	CERAMIC	0.047MF		50V
C393	1-123-369-00	ELECT	4.7MF	20%	50V
C394	1-101-004-00	CERAMIC	0.01MF		50V
C395	1-123-328-00	ELECT	4.7MF	20%	25V
C396	1-123-356-00	ELECT	10MF	20%	16V
C397	1-123-356-00	ELECT	10MF	20%	16V
C402	1-101-006-00	CERAMIC	0.047MF		50V
C404	1-101-004-00	CERAMIC	0.01MF		50V
C405	1-101-004-00	CERAMIC	0.01MF		50V
C409	1-123-333-00	ELECT	100MF	20%	25V
C411	1-101-006-00	CERAMIC	0.047MF		50V
C412	1-123-333-00	ELECT	100MF	20%	25V
C413	1-101-004-00	CERAMIC	0.01MF		50V
C414	1-101-880-00	CERAMIC	47PF	5%	50V
C415	1-101-006-00	CERAMIC	0.047MF		50V
C416	1-161-177-00	CERAMIC	0.0022MF	5%	25V
C417	1-102-963-00	CERAMIC	33PF	5%	50V
C418	1-102-973-00	CERAMIC	100PF	5%	50V
C419	1-161-323-00	CERAMIC	0.001MF	10%	50V
C421	1-161-323-00	CERAMIC	0.001MF	10%	50V
C426	1-123-333-00	ELECT	100MF	20%	25V
C427	1-123-333-00	ELECT	100MF	20%	25V
C428	1-123-321-00	ELECT	220MF	20%	16V
C452	1-102-824-00	CERAMIC	430PF	5%	50V

DIODE

D301	8-719-911-19	DIODE 1SS119
D304	8-719-911-19	DIODE 1SS119
D305	8-719-911-19	DIODE 1SS119
D306	8-719-911-19	DIODE 1SS119
D307	8-719-911-19	DIODE 1SS119
D308	8-719-911-19	DIODE 1SS119
D309	8-719-911-19	DIODE 1SS119
D310	8-719-911-19	DIODE 1SS119
D313	8-719-911-19	DIODE 1SS119
D314	8-719-911-19	DIODE 1SS119

DELAY LINE

DL301	1-415-207-21	DELAY LINE (1H)
DL302	1-415-188-00	DELAY LINE

IC

IC301	8-759-145-58	IC UPC4558C

Ref.No.	Part No.	Description	Remark
IC302	8-759-113-65	IC UPC1365C	
IC303	8-751-300-00	IC CX130	

COIL

Ref.No.	Part No.	Description	Remark
L301	1-407-696-00	MICRO INDUCTOR 18UH	
L302	1-407-695-00	MICRO INDUCTOR 15UH	
L303	1-407-696-00	MICRO INDUCTOR 18UH	
L304	1-407-693-00	MICRO INDUCTOR 10UH	
L305	1-407-698-00	MICRO INDUCTOR 27UH	
L306	1-407-697-00	MICRO INDUCTOR 22UH	
L311	1-407-701-00	MICRO INDUCTOR 47UH	
L312	1-407-166-XX	MICRO INDUCTOR 56UH	
L314	1-407-693-00	MICRO INDUCTOR 10UH	
L315	1-407-166-XX	MICRO INDUCTOR 56UH	
L316	1-407-709-00	MICRO INDUCTOR 220UH	
L317	1-407-709-00	MICRO INDUCTOR 220UH	
L318	1-407-693-00	MICRO INDUCTOR 10UH	
L319	1-407-698-00	MICRO INDUCTOR 27UH	
L350	1-407-683-00	MICRO INDUCTOR 1.5UH	
L351	1-407-693-00	MICRO INDUCTOR 10UH	
L352	1-407-696-00	MICRO INDUCTOR 18UH	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q301	8-729-603-50	TRANSISTOR 2SC403SP	
Q302	8-729-603-50	TRANSISTOR 2SC403SP	
Q303	8-729-603-50	TRANSISTOR 2SC403SP	
Q304	8-729-603-50	TRANSISTOR 2SC403SP	
Q305	8-729-603-50	TRANSISTOR 2SC403SP	
Q306	8-729-384-48	TRANSISTOR 2SA844	
Q307	8-729-603-50	TRANSISTOR 2SC403SP	
Q308	8-729-603-50	TRANSISTOR 2SC403SP	
Q309	8-729-603-50	TRANSISTOR 2SC403SP	
Q310	8-729-384-48	TRANSISTOR 2SA844	
Q311	8-729-603-50	TRANSISTOR 2SC403SP	
Q312	8-729-603-50	TRANSISTOR 2SC403SP	
Q313	8-729-178-54	TRANSISTOR 2SC2785	
Q314	8-729-603-50	TRANSISTOR 2SC403SP	
Q316	8-729-603-50	TRANSISTOR 2SC403SP	
Q317	8-729-178-54	TRANSISTOR 2SC2785	
Q318	8-729-603-50	TRANSISTOR 2SC403SP	
Q320	8-729-603-50	TRANSISTOR 2SC403SP	
Q321	8-729-603-50	TRANSISTOR 2SC403SP	
Q322	8-729-178-54	TRANSISTOR 2SC2785	
Q323	8-729-374-02	TRANSISTOR 2SB740	
Q324	8-729-384-48	TRANSISTOR 2SA844	
Q325	8-729-603-50	TRANSISTOR 2SC403SP	
Q326	8-729-178-54	TRANSISTOR 2SC2785	
Q327	8-729-603-50	TRANSISTOR 2SC403SP	
Q328	8-729-178-54	TRANSISTOR 2SC2785	
Q329	8-729-603-50	TRANSISTOR 2SC403SP	
Q330	8-729-178-54	TRANSISTOR 2SC2785	
Q331	8-729-603-50	TRANSISTOR 2SC403SP	
Q332	8-729-178-54	TRANSISTOR 2SC2785	

Ref.No.	Part No.	Descrition	Remark
Q333	8-729-201-05	TRANSISTOR 2SC2878-B	
Q334	8-729-603-50	TRANSISTOR 2SC403SP	
Q335	8-729-603-50	TRANSISTOR 2SC403SP	
Q336	8-729-603-50	TRANSISTOR 2SC403SP	
Q339	8-729-603-50	TRANSISTOR 2SC403SP	
Q340	8-729-603-50	TRANSISTOR 2SC403SP	
Q341	8-729-178-54	TRANSISTOR 2SC2785	
Q343	8-729-697-92	TRANSISTOR 2SA979	
Q344	8-729-603-50	TRANSISTOR 2SC403SP	
Q346	8-729-384-46	TRANSISTOR 2SA844	
Q347	8-729-603-50	TRANSISTOR 2SC403SP	
Q349	8-729-178-54	TRANSISTOR 2SC2785	
Q350	8-729-117-54	TRANSISTOR 2SA1175	
Q351	8-769-200-20	TRANSISTOR 2SK107-2	
Q352	8-729-603-50	TRANSISTOR 2SC403SP	
Q353	8-729-603-50	TRANSISTOR 2SC403SP	
Q354	8-729-603-50	TRANSISTOR 2SC403SP	
Q360	8-729-603-50	TRANSISTOR 2SC403SP	
Q362	8-729-201-05	TRANSISTOR 2SC2878-B	
Q363	8-729-178-54	TRANSISTOR 2SC2785	
Q366	8-729-178-54	TRANSISTOR 2SC2785	

RESISTOR

Ref.No.	Part No.	Descrition				Remark
R301	1-246-499-00	CARBON	12K	5%	1/4W	
R302	1-246-465-00	CARBON	470	5%	1/4W	
R303	1-246-465-00	CARBON	470	5%	1/4W	
R304	1-246-449-00	CARBON	100	5%	1/4W	
R305	1-246-481-00	CARBON	2.2K	5%	1/4W	
R306	1-246-461-00	CARBON	330	5%	1/4W	
R307	1-246-469-00	CARBON	680	5%	1/4W	
R308	1-246-437-00	CARBON	33	5%	1/4W	
R309	1-246-461-00	CARBON	330	5%	1/4W	
R310	1-246-459-00	CARBON	270	5%	1/4W	
R311	1-246-469-00	CARBON	680	5%	1/4W	
R312	1-246-469-00	CARBON	680	5%	1/4W	
R313	1-246-469-00	CARBON	680	5%	1/4W	
R314	1-246-469-00	CARBON	680	5%	1/4W	
R315	1-246-473-00	CARBON	1K	5%	1/4W	
R316	1-246-473-00	CARBON	1K	5%	1/4W	
R317	1-246-465-00	CARBON	470	5%	1/4W	
R318	1-246-477-00	CARBON	1.5K	5%	1/4W	
R319	1-246-469-00	CARBON	680	5%	1/4W	
R320	1-246-469-00	CARBON	680	5%	1/4W	
R321	1-246-465-00	CARBON	470	5%	1/4W	
R322	1-246-479-00	CARBON	1.8K	5%	1/4W	
R323	1-246-471-00	CARBON	820	5%	1/4W	
R324	1-246-473-00	CARBON	1K	5%	1/4W	
R325	1-246-461-00	CARBON	330	5%	1/4W	
R327	1-246-473-00	CARBON	1K	5%	1/4W	
R328	1-246-509-00	CARBON	33K	5%	1/4W	
R329	1-246-494-00	CARBON	7.5K	5%	1/4W	
R330	1-246-473-00	CARBON	1K	5%	1/4W	
R331	1-246-465-00	CARBON	470	5%	1/4W	

BA

Ref.No.	Part No.	Description				Remark
R331	1-246-465-00	CARBON	470	5%	1/4W	
R332	1-246-471-00	CARBON	820	5%	1/4W	
R333	1-246-473-00	CARBON	1K	5%	1/4W	
R334	1-246-485-00	CARBON	3.3K	5%	1/4W	
R335	1-246-477-00	CARBON	1.5K	5%	1/4W	
R336	1-246-477-00	CARBON	1.5K	5%	1/4W	
R337	1-246-465-00	CARBON	470	5%	1/4W	
R338	1-246-461-00	CARBON	330	5%	1/4W	
R339	1-246-513-00	CARBON	47K	5%	1/4W	
R340	1-246-513-00	CARBON	47K	5%	1/4W	
R341	1-246-501-00	CARBON	15K	5%	1/4W	
R342	1-246-473-00	CARBON	1K	5%	1/4W	
R343	1-246-442-00	CARBON	51	5%	1/4W	
R347	1-246-471-00	CARBON	820	5%	1/4W	
R348	1-246-471-00	CARBON	820	5%	1/4W	
R349	1-246-481-00	CARBON	2.2K	5%	1/4W	
R350	1-246-501-00	CARBON	15K	5%	1/4W	
R351	1-246-449-00	CARBON	100	5%	1/4W	
R352	1-246-484-00	CARBON	3K	5%	1/4W	
R353	1-246-513-00	CARBON	47K	5%	1/4W	
R354	1-246-505-00	CARBON	22K	5%	1/4W	
R355	1-246-499-00	CARBON	12K	5%	1/4W	
R356	1-246-508-00	CARBON	30K	5%	1/4W	
R357	1-246-475-00	CARBON	1.2K	5%	1/4W	
R358	1-246-475-00	CARBON	1.2K	5%	1/4W	
R359	1-246-475-00	CARBON	1.2K	5%	1/4W	
R360	1-246-461-00	CARBON	330	5%	1/4W	
R361	1-246-491-00	CARBON	5.6K	5%	1/4W	
R362	1-246-491-00	CARBON	5.6K	5%	1/4W	
R363	1-246-505-00	CARBON	22K	5%	1/4W	
R364	1-246-497-00	CARBON	10K	5%	1/4W	
R365	1-246-491-00	CARBON	5.6K	5%	1/4W	
R367	1-246-505-00	CARBON	22K	5%	1/4W	
R370	1-246-475-00	CARBON	1.2K	5%	1/4W	
R371	1-246-469-00	CARBON	680	5%	1/4W	
R372	1-246-471-00	CARBON	820	5%	1/4W	
R373	1-246-467-00	CARBON	560	5%	1/4W	
R374	1-246-483-00	CARBON	2.7K	5%	1/4W	
R375	1-246-471-00	CARBON	820	5%	1/4W	
R376	1-246-497-00	CARBON	10K	5%	1/4W	
R377	1-246-509-00	CARBON	33K	5%	1/4W	
R379	1-246-485-00	CARBON	3.3K	5%	1/4W	
R380	1-246-509-00	CARBON	33K	5%	1/4W	
R381	1-246-499-00	CARBON	12K	5%	1/4W	
R382	1-246-481-00	CARBON	2.2K	5%	1/4W	
R383	1-246-525-00	CARBON	150K	5%	1/4W	
R384	1-246-497-00	CARBON	10K	5%	1/4W	
R385	1-246-481-00	CARBON	2.2K	5%	1/4W	
R386	1-246-473-00	CARBON	1K	5%	1/4W	
R387	1-246-466-00	CARBON	510	5%	1/4W	
R388	1-246-461-00	CARBON	330	5%	1/4W	
R389	1-246-473-00	CARBON	1K	5%	1/4W	
R390	1-246-480-00	CARBON	2K	5%	1/4W	

Ref.No.	Part No.	Descrition				Remark
R391	1-246-465-00	CARBON	470	5%	1/4W	
R394	1-246-497-00	CARBON	10K	5%	1/4W	
R395	1-246-465-00	CARBON	470	5%	1/4W	
R396	1-246-485-00	CARBON	3.3K	5%	1/4W	
R397	1-246-479-00	CARBON	1.8K	5%	1/4W	
R398	1-246-453-00	CARBON	150	5%	1/4W	
R399	1-246-465-00	CARBON	470	5%	1/4W	
R401	1-246-469-00	CARBON	680	5%	1/4W	
R402	1-246-483-00	CARBON	2.7K	5%	1/4W	
R403	1-246-457-00	CARBON	220	5%	1/4W	
R404	1-246-473-00	CARBON	1K	5%	1/4W	
R405	1-246-481-00	CARBON	2.2K	5%	1/4W	
R406	1-246-473-00	CARBON	1K	5%	1/4W	
R407	1-246-442-00	CARBON	51	5%	1/4W	
R408	1-246-469-00	CARBON	680	5%	1/4W	
R409	1-246-473-00	CARBON	1K	5%	1/4W	
R410	1-246-517-00	CARBON	68K	5%	1/4W	
R411	1-246-465-00	CARBON	470	5%	1/4W	
R412	1-246-481-00	CARBON	2.2K	5%	1/4W	
R413	1-246-461-00	CARBON	330	5%	1/4W	
R414	1-246-513-00	CARBON	47K	5%	1/4W	
R415	1-246-513-00	CARBON	47K	5%	1/4W	
R417	1-246-505-00	CARBON	22K	5%	1/4W	
R418	1-246-467-00	CARBON	560	5%	1/4W	
R419	1-246-501-00	CARBON	15K	5%	1/4W	
R420	1-246-513-00	CARBON	47K	5%	1/4W	
R421	1-246-485-00	CARBON	3.3K	5%	1/4W	
R422	1-246-494-00	CARBON	7.5K	5%	1/4W	
R423	1-246-513-00	CARBON	47K	5%	1/4W	
R424	1-246-501-00	CARBON	15K	5%	1/4W	
R425	1-246-505-00	CARBON	22K	5%	1/4W	
R426	1-246-495-00	CARBON	8.2K	5%	1/4W	
R427	1-246-509-00	CARBON	33K	5%	1/4W	
R428	1-246-497-00	CARBON	10K	5%	1/4W	
R429	1-246-449-00	CARBON	100	5%	1/4W	
R430	1-246-465-00	CARBON	470	5%	1/4W	
R431	1-246-473-00	CARBON	1K	5%	1/4W	
R432	1-246-509-00	CARBON	33K	5%	1/4W	
R433	1-246-475-00	CARBON	1.2K	5%	1/4W	
R434	1-246-497-00	CARBON	10K	5%	1/4W	
R435	1-246-465-00	CARBON	470	5%	1/4W	
R437	1-246-491-00	CARBON	5.6K	5%	1/4W	
R438	1-246-473-00	CARBON	1K	5%	1/4W	
R439	1-246-473-00	CARBON	1K	5%	1/4W	
R440	1-246-481-00	CARBON	2.2K	5%	1/4W	
R441	1-246-507-00	CARBON	27K	5%	1/4W	
R442	1-246-507-00	CARBON	27K	5%	1/4W	
R443	1-246-473-00	CARBON	1K	5%	1/4W	
R444	1-246-473-00	CARBON	1K	5%	1/4W	
R446	1-246-473-00	CARBON	1K	5%	1/4W	
R449	1-246-497-00	CARBON	10K	5%	1/4W	
R450	1-246-473-00	CARBON	1K	5%	1/4W	
R451	1-246-495-00	CARBON	8.2K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R452	1-246-497-00	CARBON	10K	5%	1/4W	
R453	1-246-481-00	CARBON	2.2K	5%	1/4W	
R454	1-246-513-00	CARBON	47K	5%	1/4W	
R455	1-246-505-00	CARBON	22K	5%	1/4W	
R456	1-246-513-00	CARBON	47K	5%	1/4W	
R457	1-246-492-00	CARBON	6.2K	5%	1/4W	
R458	1-246-483-00	CARBON	2.7K	5%	1/4W	
R459	1-246-505-00	CARBON	22K	5%	1/4W	
R460	1-246-489-00	CARBON	4.7K	5%	1/4W	
R461	1-246-521-00	CARBON	100K	5%	1/4W	
R462	1-246-489-00	CARBON	4.7K	5%	1/4W	
R463	1-246-483-00	CARBON	2.7K	5%	1/4W	
R464	1-246-529-00	CARBON	220K	5%	1/4W	
R465	1-246-497-00	CARBON	10K	5%	1/4W	
R466	1-246-481-00	CARBON	2.2K	5%	1/4W	
R467	1-246-497-00	CARBON	10K	5%	1/4W	
R468	1-246-499-00	CARBON	12K	5%	1/4W	
R469	1-246-501-00	CARBON	15K	5%	1/4W	
R470	1-246-473-00	CARBON	1K	5%	1/4W	
R471	1-246-497-00	CARBON	10K	5%	1/4W	
R472	1-246-509-00	CARBON	33K	5%	1/4W	
R473	1-246-471-00	CARBON	820	5%	1/4W	
R474	1-246-475-00	CARBON	1.2K	5%	1/4W	
R475	1-246-471-00	CARBON	820	5%	1/4W	
R476	1-246-473-00	CARBON	1K	5%	1/4W	
R477	1-246-473-00	CARBON	1K	5%	1/4W	
R478	1-246-515-00	CARBON	56K	5%	1/4W	
R479	1-246-511-00	CARBON	39K	5%	1/4W	
R480	1-246-473-00	CARBON	1K	5%	1/4W	
R481	1-246-497-00	CARBON	10K	5%	1/4W	
R482	1-246-494-00	CARBON	7.5K	5%	1/4W	
R483	1-246-501-00	CARBON	15K	5%	1/4W	
R484	1-246-511-00	CARBON	39K	5%	1/4W	
R485	1-246-485-00	CARBON	3.3K	5%	1/4W	
R486	1-246-449-00	CARBON	100	5%	1/4W	
R487	1-246-505-00	CARBON	22K	5%	1/4W	
R489	1-246-449-00	CARBON	100	5%	1/4W	
R490	1-246-477-00	CARBON	1.5K	5%	1/4W	
R491	1-246-505-00	CARBON	22K	5%	1/4W	
R492	1-246-481-00	CARBON	2.2K	5%	1/4W	
R493	1-246-469-00	CARBON	680	5%	1/4W	
R494	1-246-473-00	CARBON	1K	5%	1/4W	
R495	1-246-505-00	CARBON	22K	5%	1/4W	
R496	1-246-505-00	CARBON	22K	5%	1/4W	
R497	1-246-505-00	CARBON	22K	5%	1/4W	
R498	1-246-501-00	CARBON	15K	5%	1/4W	
R499	1-246-473-00	CARBON	1K	5%	1/4W	
R500	1-246-479-00	CARBON	1.8K	5%	1/4W	
R501	1-246-465-00	CARBON	470	5%	1/4W	
R503	1-246-473-00	CARBON	1K	5%	1/4W	
R505	1-246-465-00	CARBON	470	5%	1/4W	
R509	1-246-473-00	CARBON	1K	5%	1/4W	
R510	1-246-473-00	CARBON	1K	5%	1/4W	

Ref.No.	Part No.	Descrition				Remark
R515	1-246-434-00	CARBON	24	5%	1/4W	
R516	1-246-473-00	CARBON	1K	5%	1/4W	
R517	1-246-497-00	CARBON	10K	5%	1/4W	
R518	1-246-473-00	CARBON	1K	5%	1/4W	
R519	1-246-463-00	CARBON	390	5%	1/4W	
R521	1-246-459-00	CARBON	270	5%	1/4W	
R522	1-246-449-00	CARBON	100	5%	1/4W	
R523	1-246-479-00	CARBON	1.8K	5%	1/4W	
R525	1-246-505-00	CARBON	22K	5%	1/4W	
R526	1-246-485-00	CARBON	3.3K	5%	1/4W	
R527	1-247-034-00	CARBON	220	5%	1/8W	F
R528	1-246-465-00	CARBON	470	5%	1/4W	
R534	1-246-465-00	CARBON	470	5%	1/4W	
R535	1-246-465-00	CARBON	470	5%	1/4W	
R536	1-246-505-00	CARBON	22K	5%	1/4W	
R537	1-246-513-00	CARBON	47K	5%	1/4W	

VARIABLE RESISTOR

RV301	1-224-640-XX	RES, ADJ, CARBON 330
RV303	1-226-819-00	RES, ADJ, CARBON 1K
RV304	1-224-640-XX	RES, ADJ, CARBON 330
RV305	1-224-643-XX	RES, ADJ, CARBON 2.2K
RV306	1-224-644-XX	RES, ADJ, CARBON 4.7K

TRANSFORMER

T301	1-407-570-00	COIL, VARIABLE 15UH
T302	1-425-831-00	COIL BPT-1
T303	1-405-372-00	COIL BAT
T304	1-409-193-00	COIL 3.58MHZ TRAP

CRYSTAL

X301	1-527-396-00	CRYSTAL, OSC

****

♠:1-604-882-00 FB BOARD

****

♠:1-533-087-00 HOLDER, FUSE

CAPACITOR

C601	⚠.1-108-745-52	MYLAR	0.22MF	20%	125V

FUSE

F601	⚠.1-532-557-11	FUSE, GLASS TUBE 3.15A 125V

CONNECTOR

FB1	1-506-348-XX	3P PLUG (L)
FB2	1-506-347-21	4P PLUG
FB3	1-508-765-00	3P PLUG (M)

COIL

L601	⚠.1-441-855-11	TRANSFORMER, HEATER INSULATION

RESISTOR

R601	⚠.1-202-657-11	COMPOSITION	3.3M	5%	1/2W

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Remark

THERMISTOR

Ref.No.	Part No.	Description
⚠THP601.	1-800-567-00	THERMISTOR, POSITIVE

****

♠ :A-1245-162-A FA BOARD, COMPLETE

****

♠ :1-533-087-00 HOLDER, FUSE
♠ :1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)
♠ :4-323-833-00 HEAT SINK, PIN OUT
♠ :4-335-911-00 HEAT SINK (G)

CAPACITOR

Ref.No.	Part No.	Description			Remark
C610	1-102-085-00	CERAMIC	0.0047MF		500V
C611	1-102-085-00	CERAMIC	0.0047MF		500V
C612	1-102-085-00	CERAMIC	0.0047MF		500V
C613	1-102-085-00	CERAMIC	0.0047MF		500V
C614	1-102-085-00	CERAMIC	0.0047MF		500V
C615	1-125-186-00	ELECT(BLOCK)	560MF		200V
C616	1-121-999-00	ELECT	10MF		160V
C617	1-102-228-00	CERAMIC	470PF	10%	500V
C618	1-121-757-00	ELECT	33MF		160V
C620	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C621	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C622	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C623	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C624	1-123-339-00	ELECT	3300MF	20%	25V
C625	1-123-356-00	ELECT	10MF	20%	25V
C626	1-102-074-00	CERAMIC	0.001MF	10%	50V
C627	1-123-337-00	ELECT	1000MF	20%	25V
C628	1-123-338-00	ELECT	2200MF	20%	25V
C629	1-123-356-00	ELECT	10MF	20%	25V
C630	1-102-074-00	CERAMIC	0.001MF	10%	50V
C631	1-123-337-00	ELECT	1000MF	20%	25V

DIODE

Ref.No.	Part No.	Description
D610	8-719-911-55	DIODE U05G
D611	8-719-911-55	DIODE U05G
D612	8-719-911-55	DIODE U05G
D613	8-719-911-55	DIODE U05G
D615	8-719-102-91	DIODE RD10E-N3
D620	8-719-200-02	DIODE 10E2
D621	8-719-200-02	DIODE 10E2
D622	8-719-200-02	DIODE 10E2
D623	8-719-200-02	DIODE 10E2
D624	8-719-102-68	DIODE RD5.1E-N2
D625	8-719-102-68	DIODE RD5.1E-N2
D626	8-719-103-61	DIODE RD15J-N2
D627	8-719-103-61	DIODE RD15J-N2

FUSE

Ref.No.	Part No.	Descrition
F610 ⚠.	1-532-555-11	FUSE, GLASS TUBE 1.6A 125V
F611 ⚠.	1-532-555-11	FUSE, GLASS TUBE 1.6A 125V
F612 ⚠.	1-532-555-11	FUSE, GLASS TUBE 1.6A 125V

CONNECTOR

Ref.No.	Part No.	Descrition
FA1	♠:1-506-371-00	2P PLUG (L)
FA2	♠:1-508-765-00	3P PLUG (M)
FA3	♠:1-508-765-00	3P PLUG (M)
FA4	♠:1-506-371-00	2P PLUG (L)
FA5	♠:1-508-767-00	5P PLUG
FA6	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
FA7	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P

TRANSISTOR

Ref.No.	Part No.	Descrition
Q610	8-729-213-11	TRANSISTOR 2SC2230A
Q611	8-729-309-08	TRANSISTOR 2SC1890A
Q620	8-729-177-43	TRANSISTOR 2SD774
Q621	8-729-313-42	TRANSISTOR 2SD1342
Q622	8-729-178-54	TRANSISTOR 2SC2785
Q623	8-729-103-43	TRANSISTOR 2SB734
Q624	8-729-385-82	TRANSISTOR 2SB858
Q625	8-729-117-54	TRANSISTOR 2SA1175
Q626	8-729-178-54	TRANSISTOR 2SC2785
Q627	8-729-117-54	TRANSISTOR 2SA1175
Q640	8-729-309-08	TRANSISTOR 2SC1890A
Q641	8-729-178-54	TRANSISTOR 2SC2785

RESISTOR

Ref.No.	Part No.	Descrition				Remark
R610	1-202-661-00	COMPOSITION	4.7M	5%	1/2W	
R611	1-213-159-00	METAL	22K	5%	1W	F
R612	1-213-161-00	METAL	33K	5%	1W	F
R613	1-213-161-00	METAL	33K	5%	1W	F
R614	1-246-477-00	CARBON	1.5K	5%	1/4W	
R615	1-246-489-00	CARBON	4.7K	5%	1/4W	
☒R616 ⚠.		CARBON			1/4W	
R617	1-246-514-00	CARBON	51K	5%	1/4W	
R620	1-246-481-00	CARBON	2.2K	5%	1/4W	
R621	1-246-493-00	CARBON	6.8K	5%	1/4W	
R622	1-246-477-00	CARBON	1.5K	5%	1/4W	
R623	1-246-499-00	CARBON	12K	5%	1/4W	
R624	1-246-492-00	CARBON	6.2K	5%	1/4W	
R625	1-246-481-00	CARBON	2.2K	5%	1/4W	
R626	1-246-493-00	CARBON	6.8K	5%	1/4W	
R627	1-246-477-00	CARBON	1.5K	5%	1/4W	
R628	1-246-492-00	CARBON	6.2K	5%	1/4W	
R629	1-246-499-00	CARBON	12K	5%	1/4W	
☒R630 ⚠.		CARBON			1/4W	
☒R631 ⚠.		CARBON			1/4W	
R632	1-217-305-00	WIREWOUND	39	10%	5W	F
R633	1-246-489-00	CARBON	4.7K	5%	1/4W	
R634	1-246-489-00	CARBON	4.7K	5%	1/4W	
R635	1-247-037-00	CARBON	390	5%	1/8W	F
R640	1-213-161-00	METAL	33K	5%	1W	F

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- The components identified by ☒ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Select the resistance value according to SAFETY RELATED ADJUSTMENT.

Ref.No.	Part No.	Description				Remark
R641	1-213-161-00	METAL	33K	5%	1W	F
R642	1-246-497-00	CARBON	10K	5%	1/4W	
R643	1-246-521-00	CARBON	100K	5%	1/4W	
R644	1-246-509-00	CARBON	33K	5%	1/4W	
R645	1-246-521-00	CARBON	100K	5%	1/4W	
R646	1-246-497-00	CARBON	10K	5%	1/4W	
R647	1-246-497-00	CARBON	10K	5%	1/4W	

VARIABLE RESISTOR

Ref.No.	Part No.	Description
RV610	1-226-819-00	RES, ADJ, CARBON 1K
RV620	1-226-819-00	RES, ADJ, CARBON 1K
RV621	1-226-819-00	RES, ADJ, CARBON 1K

THERMISTOR

Ref.No.	Part No.	Description
TH610	1-800-070-XX	THERMISTOR TH-4700

****

♠:A-1330-397-A C BOARD, COMPLETE

****

Part No.	Description
♠:1-604-888-00	PC BOARD, C
♠:1-509-845-00	CONNECTOR ASSY, 3P
1-526-086-XX	SOCKET, CRT
♠:1-555-037-00	CONNECTOR ASSY, MINIATURE 3P

CAPACITOR

Ref.No.	Part No.	Description			
C780	1-129-739-00	FILM	0.1MF	20%	630V
C781	1-102-327-00	CERAMIC	330PF	15%	1.5KV
C782	1-108-433-00	MYLAR	0.1MF	10%	200V

DIODE

Ref.No.	Part No.	Description
D780	8-719-926-20	DIODE ERB26-20

NEON LAMP

Ref.No.	Part No.	Description
NL780	1-519-108-XX	LAMP, NEON ASSY
NL781	1-519-108-XX	LAMP, NEON ASSY

RESISTOR

Ref.No.	Part No.	Description				Remark
R780	1-202-581-00	COMPOSITION	2.2K	5%	1/2W	
R781	1-202-581-00	COMPOSITION	2.2K	5%	1/2W	
R782	1-202-581-00	COMPOSITION	2.2K	5%	1/2W	
R783	1-202-639-00	COMPOSITION	560K	5%	1/2W	
R784	1-202-545-00	COMPOSITION	68	5%	1/2W	
R785	1-202-645-00	COMPOSITION	1M	5%	1/2W	
R786	1-202-629-00	COMPOSITION	220K	5%	1/2W	
R787	1-202-637-00	COMPOSITION	470K	5%	1/2W	
R788	1-202-639-00	COMPOSITION	560K	5%	1/2W	
R789	1-202-597-00	COMPOSITION	10K	5%	1/2W	
R790	1-206-439-00	METAL	1	5%	2W	F

VARIABLE RESISTOR

Ref.No.	Part No.	Description	Remark
RV780	1-224-123-00	RES, ADJ, CARBON 1M	
RV781	1-224-173-00	RES, ADJ, CARBON 2M	

SPARK GAP

Ref.No.	Part No.	Description
SG780	1-519-063-XX	DISCHARGING GAP
SG781	1-519-063-XX	DISCHARGING GAP
SG782	1-519-063-XX	DISCHARGING GAP
SG783	1-519-063-XX	DISCHARGING GAP
SG784	1-519-063-XX	DISCHARGING GAP

****

♠:A-1345-382-A D BOARD, COMPLETE

****

Part No.	Description
3-701-353-00	SPACER, MICA
3-701-609-00	BUSHING (B), TR
4-303-844-00	SPACER, MICA (4) MD-17
♠:4-309-762-00	RETAINER (MD-17), TRANSISTOR
♠:4-314-938-01	RETAINER (TO-3), TRANSISTOR
♠:4-837-107-00	SPACER

CAPACITOR

Ref.No.	Part No.	Description			
C801	1-102-973-00	CERAMIC	100PF	5%	50V
C802	1-108-429-00	MYLAR	0.047MF	10%	200V
C803	1-102-232-00	CERAMIC	470PF	20%	500V
C804	1-108-371-00	MYLAR	0.0033MF	10%	100V
C805	1-108-377-00	MYLAR	0.01MF	10%	100V
C806	1-102-232-00	CERAMIC	470PF	20%	500V
C807	1-108-377-00	MYLAR	0.01MF	10%	100V
C809	1-102-244-00	CERAMIC	220PF	10%	500V
C810	1-102-249-00	CERAMIC	680PF	20%	2KV
C811	⚠.1-130-692-11	FILM	0.014MF	3%	1.4KV
C812	⚠.1-130-067-11	FILM	0.045MF	3%	1.5KV
C813	⚠.1-130-068-11	FILM	0.067MF	3%	1K
C814	1-102-244-00	CERAMIC	220PF	10%	500V
C815	1-108-373-00	MYLAR	0.0047MF	10%	100V
C816	1-108-365-00	MYLAR	0.001MF	10%	100V
C817	1-102-824-00	CERAMIC	430PF	5%	50V
C818	1-108-377-00	MYLAR	0.01MF	10%	100V
C820	1-131-371-00	TANTALUM	10MF	10%	16V
C821	1-108-433-00	MYLAR	0.1MF	10%	200V
C823	1-123-380-00	ELECT	1MF	20%	50V
C825	1-108-377-00	MYLAR	0.01MF	10%	100V
C826	1-121-999-00	ELECT	10MF		160V
C827	1-121-757-00	ELECT	33MF		160V
C828	1-108-377-00	MYLAR	0.01MF	10%	100V
C831	1-102-973-00	CERAMIC	100PF	5%	50V
C832	1-123-360-00	ELECT	100MF	20%	50V
C833	1-108-549-00	MYLAR	0.68MF	10%	200V
C834	1-108-389-00	MYLAR	0.1MF	10%	100V
C835	1-123-026-00	ELECT	2.2MF		160V
C836	1-108-429-00	MYLAR	0.047MF	10%	200V
C837	1-102-030-00	CERAMIC	330PF	10%	500V
C838	1-108-369-00	MYLAR	0.0022MF	10%	100V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			Remark
C839	1-123-381-00	ELECT	2.2MF	20%	50V
C840	1-123-381-00	ELECT	2.2MF	20%	50V
C841	1-108-385-00	MYLAR	0.047MF	10%	100V
C842	1-102-232-00	CERAMIC	470PF	20%	500V
C843	1-130-330-00	FILM	1.4MF	5%	200V
C844	1-130-157-00	FILM	1MF	5%	200V
C845	1-130-179-00	FILM	2MF	5%	200V
C846	1-108-389-00	MYLAR	0.1MF	10%	100V
C847	1-129-886-00	FILM	0.0068MF	5%	1.5KV
C848	1-123-333-00	ELECT	100MF	20%	16V
C849	1-123-333-00	ELECT	100MF	20%	16V
C850	1-123-362-00	ELECT	330MF	20%	50V
C851	1-123-362-00	ELECT	330MF	20%	50V
C852	1-123-362-00	ELECT	330MF	20%	50V
C853	1-102-223-00	CERAMIC	0.0047MF	20%	1.6KV
C854	1-123-253-00	ELECT	22MF		160V
C860	1-123-333-00	ELECT	22MF	20%	16V
C861	1-123-356-00	ELECT	10MF	20%	25V
C862	1-101-006-00	CERAMIC	0.047MF		50V
C864	1-108-423-00	MYLAR	0.015MF	10%	200V
C865	1-131-371-00	TANTALUM	10MF	10%	16V
C866	1-108-377-00	MYLAR	0.01MF	10%	100V
C867	1-108-393-00	MYLAR	0.22MF	10%	100V
C870	1-108-385-00	MYLAR	0.047MF	10%	100V
C871	1-108-383-00	MYLAR	0.033MF	10%	100V
C872	1-108-385-00	MYLAR	0.047MF	10%	100V
C873	1-108-385-00	MYLAR	0.047MF	10%	100V
C874	1-121-806-00	ELECT	10MF	20%	16V
C875	1-108-393-00	MYLAR	0.22MF	10%	100V
C877	1-123-333-00	ELECT	22MF	20%	16V
C878	1-130-157-00	FILM	1MF	5%	200V
C879	1-102-223-00	CERAMIC	0.0047MF	20%	1.6KV
C880	1-102-223-00	CERAMIC	0.0047MF	20%	1.6KV
C881	1-123-331-00	ELECT	33MF	20%	25V
C882	1-108-421-00	MYLAR	0.01MF	10%	200V
C885	1-123-333-00	ELECT	100MF	20%	25V
C886	1-102-038-00	CERAMIC	0.001MF		500V
C888	1-101-006-00	CERAMIC	0.047MF		50V
C889	1-101-006-00	CERAMIC	0.047MF		50V

CONNECTOR

Ref.No.	Part No.	Description
D1	♣:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
D2	♣:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
D3	♣:1-508-767-00	5P PLUG
D4	1-508-765-00	3P PLUG (M)
D5	1-508-765-00	3P PLUG (M)
D6	1-508-765-00	3P PLUG (M)
D7	♣:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
D8	1-508-765-00	3P PLUG (M)
D9	1-506-347-21	4P PLUG
D10	1-506-348-XX	3P PLUG (L)
D11	♣:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
D12	♣:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Descrition	Remark

DIODE

Ref.No.	Part No.	Descrition	Remark
D801	8-719-911-19	DIODE 1SS119	
D802	8-719-911-19	DIODE 1SS119	
D803	8-719-300-45	DIODE EM-1Z	
D804	8-719-315-15	DIODE GH3F	
D807	8-719-911-19	DIODE 1SS119	
D808	8-719-911-19	DIODE 1SS119	
D809	8-719-300-70	DIODE RH1C	
D810	8-719-300-70	DIODE RH1C	
D812	8-719-911-19	DIODE 1SS119	
D813	8-719-911-19	DIODE 1SS119	
D814	8-719-911-19	DIODE 1SS119	
D818	8-719-911-19	DIODE 1SS119	
D819	8-719-911-19	DIODE 1SS119	
D820	8-719-928-08	DIODE ERD28-08	
D821	8-719-901-19	DIODE V11N	
D822	8-719-315-15	DIODE GH3F	
D823	8-719-300-70	DIODE RH1C	
D824	8-719-300-70	DIODE RH1C	
D825	8-719-911-19	DIODE 1SS119	
D826	8-719-911-19	DIODE 1SS119	
D827	8-719-300-45	DIODE EM1Z	
D828	8-719-911-19	DIODE 1SS119	
D829	8-719-300-45	DIODE EM1Z	
D831	8-719-911-19	DIODE 1SS119	
D832	8-719-300-38	DIODE GU3A	
D833	8-719-300-38	DIODE GU3A	
D834	8-719-300-38	DIODE GU3A	
D835	8-719-300-70	DIODE RH1C	
D836	8-719-300-86	DIODE RU1A	
D837	8-719-911-19	DIODE 1SS119	
D840	8-719-911-19	DIODE 1SS119	
D841	8-719-911-19	DIODE 1SS119	
D844	8-719-315-15	DIODE GH3F	
D845	8-719-911-19	DIODE 1SS119	
D871	8-719-911-19	DIODE 1SS119	
D890	8-719-911-19	DIODE 1SS119	
D891	8-719-911-19	DIODE 1SS119	
D892 ⚠.	8-719-100-69	DIODE RD13E-B3	
D816B	8-719-999-53	DIODE EQA01-05T1	

IC

Ref.No.	Part No.	Descrition	Remark
IC801	8-759-145-58	IC UPC4558C	

COIL

Ref.No.	Part No.	Descrition	Remark
L801 ⚠.	1-413-026-21	COIL, SERIES REGULATION (SRC)	
L802	1-407-780-00	COIL, SPOOK CHOKE	
L803	1-407-365-00	COIL, CHOKE	
L805	1-459-111-00	COIL, DRAM CORE (CDI)	
L806	1-459-111-00	COIL, DRAM CORE (CDI)	
L807	1-407-841-00	COIL	
L808	1-421-368-00	COIL, VAR FERRITE (HLC)	

Ref.No.	Part No.	Description				Remark
L809	1-421-364-00	COIL, FERRITE CHOKE				
L810	1-459-111-00	COIL, DRAM CORE (CDI)				
L811	1-407-780-00	COIL, SPOOK CHOKE				
L812	1-407-780-00	COIL, SPOOK CHOKE				
L813	1-408-243-00	MICRO INDUCTOR 12MMH				
L814	1-408-160-00	MICRO INDUCTOR 15MMH				
		TRAMSISTOR				
Q516	8-763-623-00	TRANSISTOR 2SC1810				
Q801	8-729-178-54	TRANSISTOR 2SC2785				
Q802	8-729-178-54	TRANSISTOR 2SC2785				
Q803	8-765-012-20	TRANSISTOR 2SC1811				
Q804	8-729-341-34	TRANSISTOR 2SC1413A				
Q805	8-729-178-54	TRANSISTOR 2SC2785				
Q808	8-729-313-82	TRANSISTOR 2SD1138				
	●:4-324-413-00	HEAT SINK, R, Q808				
Q809	8-729-387-36	TRANSISTOR 2SC867A				
Q810	8-729-195-82	TRANSISTOR 2SC2958				
Q813	8-729-178-54	TRANSISTOR 2SC2785				
Q814	8-729-178-54	TRANSISTOR 2SC2785				
Q815	8-729-178-54	TRANSISTOR 2SC2785				
Q816	8-729-103-43	TRANSISTOR 2SB734				
Q817	8-729-178-54	TRANSISTOR 2SC2785				
Q818	8-729-178-54	TRANSISTOR 2SC2785				
Q819	8-761-310-00	THYRISTOR SG613-A				
Q820	8-729-341-34	TRANSISTOR 2SC1413A				
Q821	8-729-117-54	TRANSISTOR 2SA1175				
Q822	8-729-117-54	TRANSISTOR 2SA1175				
Q823	8-729-117-54	TRANSISTOR 2SA1175				
Q824	8-729-313-82	TRANSISTOR 2SD1138				
	●:4-323-833-00	HEAT SINK, PIN OUT, Q824				
Q825	8-729-386-12	TRANSISTOR 2SB861				
	●:4-323-833-00	HEAT SINK, PIN OUT, Q825				
Q826	8-729-195-82	TRANSISTOR 2SC2958				
Q827	8-729-178-54	TRANSISTOR 2SC2785				
Q828	8-719-000-28	THYRISTOR CR02AM-8				
Q829	8-719-000-28	THYRISTOR CR02AM-8				
Q831	8-729-178-54	TRANSISTOR 2SC2785				
Q832	8-729-178-54	TRANSISTOR 2SC2785				
Q833	8-729-306-92	TRANSISTOR 2SD669A				
Q834	8-729-364-92	TRANSISTOR 2SB649A				
Q871	8-729-309-08	TRANSISTOR 2SC1890A				
Q806B	8-729-697-92	TRANSISTOR 2SA979				
		RESISTOR				
R556	1-206-664-00	METAL	1K	5%	2W	F
R571	1-246-449-00	CARBON	100	5%	1/4W	
R572	1-213-144-00	METAL	1.2K	5%	1W	F
R573	1-206-680-00	METAL	4.7K	5%	2W	F
R574	1-246-475-00	CARBON	1.2K	5%	1/4W	
R575	1-246-475-00	CARBON	1.2K	5%	1/4W	
R576	1-246-515-00	CARBON	56K	5%	1/4W	
R577	1-246-481-00	CARBON	2.2K	5%	1/4W	

Ref.No.	Part No.	Descrition				Remark
R578	1-246-473-00	CARBON	1K	5%	1/4W	
R579	1-206-680-00	METAL	4.7K	5%	2W	F
R580	1-246-489-00	CARBON	4.7K	5%	1/4W	
R581	1-212-364-00	METAL	2.2	5%	1W	F
R582	1-213-129-00	METAL	68	5%	1W	F
R583	1-246-481-00	CARBON	2.2K	5%	1/4W	
R584	1-246-497-00	CARBON	10K	5%	1/4W	
R585	1-246-473-00	CARBON	1K	5%	1/4W	
R586	1-246-499-00	CARBON	12K	5%	1/4W	
R587	1-246-481-00	CARBON	2.2K	5%	1/4W	
R590	1-246-537-00	CARBON	470K	5%	1/4W	
R591	1-246-497-00	CARBON	10K	5%	1/4W	
R592	1-246-497-00	CARBON	10K	5%	1/4W	
R593	1-246-521-00	CARBON	100K	5%	1/4W	
R801	1-246-489-00	CARBON	4.7K	5%	1/4W	
R804	1-206-467-00	METAL	15	5%	2W	F
R805	1-246-463-00	CARBON	390	5%	1/4W	
R807	1-246-491-00	CARBON	5.6K	5%	1/4W	
R809	1-246-508-00	CARBON	30K	5%	1/4W	
R810	1-246-505-00	CARBON	22K	5%	1/4W	
R811	1-211-427-00	CARBON	100	5%	1/8W	F
R812	1-246-513-00	CARBON	47K	5%	1/4W	
R813	1-246-497-00	CARBON	10K	5%	1/4W	
R820	1-246-473-00	CARBON	1K	5%	1/4W	
R821	1-246-481-00	CARBON	2.2K	5%	1/4W	
R822	1-246-473-00	CARBON	1K	5%	1/4W	
R823	1-246-494-00	CARBON	7.5K	5%	1/4W	
R824	1-246-504-00	CARBON	20K	5%	1/4W	
R825	1-246-491-00	CARBON	5.6K	5%	1/4W	
R826	1-246-425-00	CARBON	10	5%	1/4W	
R827	1-213-129-00	METAL	68	5%	1W	F
R828	1-246-479-00	CARBON	1.8K	5%	1/4W	
R829	1-213-131-00	METAL	100	5%	1W	F
R830	1-246-979-00	CARBON	1.2	5%	1/8W	F
R831	1-246-979-00	CARBON	1.2	5%	1/8W	F
R832	1-211-409-00	CARBON	10	5%	1/8W	F
R833	1-206-451-00	METAL	3.3	5%	2W	F
R834 ⚠	1-247-009-00	CARBON	470	5%	1/4W	F
R835	1-213-143-00	METAL	1K	5%	1W	F
R837	1-246-507-00	CARBON	27K	5%	1/4W	
R838	1-246-507-00	CARBON	27K	5%	1/4W	
R839	1-246-487-00	CARBON	3.9K	5%	1/4W	
R840	1-246-487-00	CARBON	3.9K	5%	1/4W	
R841	1-246-486-00	CARBON	3.6K	5%	1/4W	
R842	1-246-497-00	CARBON	10K	5%	1/4W	
R843	1-246-473-00	CARBON	1K	5%	1/4W	
R844	1-246-463-00	CARBON	390	5%	1/4W	
R845	1-246-521-00	CARBON	100K	5%	1/4W	
R846	1-246-488-00	CARBON	4.3K	5%	1/4W	
R847	1-246-501-00	CARBON	15K	5%	1/4W	
R848	1-246-485-00	CARBON	3.3K	5%	1/4W	
R849	1-246-467-00	CARBON	560	5%	1/4W	
R850	1-246-489-00	CARBON	4.7K	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

D V

Ref.No.	Part No.	Description				Remark
R851	1-212-376-00	METAL	22	5%	1W	F
R852	1-206-481-00	METAL	56	5%	2W	F
R853	1-213-146-00	METAL	1.8K	5%	1W	F
R854	1-206-672-00	METAL	2.2K	5%	2W	F
R855	1-206-459-00	METAL	6.8	5%	2W	F
R857	1-212-361-00	METAL	1.2	5%	1W	F
R858	1-212-364-00	METAL	2.2	5%	1W	F
R859	1-213-130-00	METAL	82	5%	1W	F
R860 ⚠.	1-246-979-11	CARBON	1.2	5%	1/8W	F
R861 ⚠.	1-246-979-11	CARBON	1.2	5%	1/8W	F
R862 ⚠.	1-246-979-11	CARBON	1.2	5%	1/8W	F
R863 ⚠.	1-213-143-61	METAL	1K	5%	1W	F
R864	1-246-497-25	CARBON	10K	5%	1/4W	
R865 ⚠.	1-246-979-11	CARBON	1.2	5%	1/8W	F
R866	1-246-449-25	CARBON	100	5%	1/4W	
⧗R867 ⚠.		CARBON			1/4W	
⧗R868 ⚠.		CARBON			1/4W	
R869 ⚠.	1-246-982-11	CARBON	10	5%	1/8W	F
R871	1-246-451-00	CARBON	120	5%	1/4W	
R872	1-246-505-00	CARBON	22K	5%	1/4W	
R873	1-246-497-00	CARBON	10K	5%	1/4W	
R874	1-246-481-00	CARBON	2.2K	5%	1/4W	
R875	1-246-489-00	CARBON	4.7K	5%	1/4W	
R876	1-246-481-00	CARBON	2.2K	5%	1/4W	
R877	1-246-451-00	CARBON	120	5%	1/4W	
R878	1-246-481-00	CARBON	2.2K	5%	1/4W	
R879	1-246-981-00	CARBON	4.7	5%	1/8W	F
R880	1-246-981-00	CARBON	4.7	5%	1/8W	F
R881 ⚠.	1-246-979-11	CARBON	1.2	5%	1/8W	F
R882	1-246-473-00	CARBON	1K	5%	1/4W	
⧗R883 ⚠.		CARBON			1/4W	
⧗R884 ⚠.		CARBON			1/4W	
R885	1-246-491-00	CARBON	5.6K	5%	1/4W	
R886	1-246-497-00	CARBON	10K	5%	1/4W	
R888	1-246-487-00	CARBON	3.9K	5%	1/4W	
R889 ⚠.	1-213-141-61	METAL	680	5%	1W	F
R890	1-246-473-00	CARBON	1K	5%	1/4W	
R891	1-214-150-00	METAL	5.6K	1%	1/4W	
R892	1-214-156-00	METAL	10K	1%	1/4W	
R893	1-246-491-00	CARBON	5.6K	5%	1/4W	
R895	1-246-501-00	CARBON	15K	5%	1/4W	
R896	1-246-494-00	CARBON	7.5K	5%	1/4W	
R808B	1-246-520-00	CARBON	91K	5%	1/4W	
R887B	1-246-491-00	CARBON	5.6K	5%	1/4W	

VARIABLE RESISTOR

RV801	1-224-646-XX	RES, ADJ, CARBON 22K
RV802	1-224-648-XX	RES, ADJ, CARBON 100K
RV804	1-224-647-XX	RES, ADJ, CARBON 47K
RV805	1-224-648-XX	RES, ADJ, CARBON 100K
RV806	1-224-641-XX	RES, ADJ, CARBON 470
RV808	1-224-641-XX	RES, ADJ, CARBON 470
RV809	1-223-102-00	RES, ADJ, WIREWOUND 120

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Descrition	Remark

SPARK GAP

SG801	1-519-030-00	DISCHARGE ELEMENT

TRANSFORMER

T801	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE
T802	1-437-078-00	TRANSFORMER, HORIZONTAL DRIVE
T803 ⚠.	1-439-282-11	TRANSFORMER, FERRITE (LOT)
T804	1-439-241-00	TRANSFORMER, HORIZONTAL OUTPUT

****

♦:A-1347-007-A V BOARD, COMPLETE
****

CAPACITOR

C51	1-123-333-00	ELECT	100MF	20%	25V
C52	1-123-356-00	ELECT	10MF	20%	25V
C53	1-123-332-00	ELECT	47MF	20%	25V
C54	1-101-006-00	CERAMIC	0.047MF		50V
C55	1-123-331-00	ELECT	33MF	20%	25V
C56	1-101-004-00	CERAMIC	0.01MF		50V
C57	1-123-333-00	ELECT	100MF	20%	25V
C58	1-123-356-00	ELECT	10MF	20%	25V
C59	1-123-332-00	ELECT	47MF	20%	25V
C60	1-101-006-00	CERAMIC	0.047MF		50V
C61	1-123-331-00	ELECT	33MF	20%	25V
C62	1-123-331-00	ELECT	33MF	20%	25V
C63	1-101-004-00	CERAMIC	0.01MF		50V
C64	1-123-331-00	ELECT	33MF	20%	25V
C65	1-123-333-00	ELECT	100MF	20%	25V
C66	1-123-356-00	ELECT	10MF	20%	25V
C67	1-123-332-00	ELECT	47MF	20%	25V
C68	1-123-331-00	ELECT	33MF	20%	25V
C69	1-101-006-00	CERAMIC	0.047MF		50V
C70	1-123-331-00	ELECT	33MF	20%	25V
C71	1-102-529-00	CERAMIC	100PF	5%	50V
C72	1-123-356-00	ELECT	10MF	20%	25V
C73	1-123-332-00	ELECT	47MF	20%	25V
C74	1-123-332-00	ELECT	47MF	20%	25V
C75	1-123-331-00	ELECT	33MF	20%	25V
C76	1-123-331-00	ELECT	33MF	20%	25V
C77	1-123-331-00	ELECT	33MF	20%	25V
C78	1-123-332-00	ELECT	47MF	20%	16V
C79	1-101-006-00	CERAMIC	0.047MF		50V
C80	1-102-824-00	CERAMIC	430PF	5%	50V
C81	1-102-851-00	CERAMIC	15PF	5%	50V
C82	1-102-518-00	CERAMIC	33PF	5%	50V
C83	1-123-356-00	ELECT	10MF	20%	16V
C84	1-123-330-00	ELECT	22MF	20%	16V
C85	1-108-242-00	MYLAR	0.022MF	10%	50V
C86	1-123-332-00	ELECT	47MF	20%	16V
C87	1-123-330-00	ELECT	22MF	20%	16V
C88	1-102-074-00	CERAMIC	0.001MF	10%	50V

- The components identified by ⧗ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Select the resistance value according to SAFETY RELATED ADJUSTMENT.

Ref.No.	Part No.	Description			Remark
C89	1-102-074-00	CERAMIC	0.001MF	10%	50V
C90	1-108-579-00	MYLAR	0.01MF	5%	50V
C91	1-108-845-00	MYLAR	0.047MF	10%	50V
C92	1-102-973-00	CERAMIC	100PF	5%	50V
C94	1-108-567-00	MYLAR	0.0033MF	5%	50V
C95	1-108-579-00	MYLAR	0.01MF	5%	50V
C96	1-123-356-00	ELECT	10MF	20%	16V
C97	1-102-114-00	CERAMIC	470PF	10%	50V
C98	1-108-845-00	MYLAR	0.047MF	10%	50V
C100	1-102-978-00	CERAMIC	220PF	5%	50V
C101	1-102-971-00	CERAMIC	82PF	5%	50V
C102	1-102-529-00	CERAMIC	100PF	5%	50V
C103	1-102-529-00	CERAMIC	100PF	5%	50V
C104	1-102-973-00	CERAMIC	100PF	5%	50V
C105	1-101-361-00	CERAMIC	150PF	5%	50V
C106	1-102-978-00	CERAMIC	220PF	5%	50V
C107	1-102-531-00	CERAMIC	150PF	5%	50V
C108	1-102-531-00	CERAMIC	150PF	5%	50V
C109	1-102-978-00	CERAMIC	220PF	5%	50V
C110	1-102-531-00	CERAMIC	150PF	5%	50V
C111	1-102-531-00	CERAMIC	150PF	5%	50V
C112	1-102-978-00	CERAMIC	220PF	5%	50V
C113	1-102-529-00	CERAMIC	100PF	5%	50V
C115	1-102-531-00	CERAMIC	150PF	5%	50V
C116	1-101-006-00	CERAMIC	0.047MF		50V
C118	1-101-006-00	CERAMIC	0.047MF		50V
C119	1-102-978-00	CERAMIC	220PF	5%	50V
C120	1-101-006-00	CERAMIC	0.047MF		50V
C121	1-101-006-00	CERAMIC	0.047MF		50V
C122	1-101-006-00	CERAMIC	0.047MF		50V
C123	1-102-978-00	CERAMIC	220PF	5%	50V
C124	1-102-978-00	CERAMIC	220PF	5%	50V
C125	1-102-978-00	CERAMIC	220PF	5%	50V
C126	1-102-978-00	CERAMIC	220PF	5%	50V
C127	1-102-978-00	CERAMIC	220PF	5%	50V
C128	1-102-852-00	CERAMIC	47PF	5%	50V
C129	1-102-978-00	CERAMIC	220PF	5%	50V
C130	1-123-333-00	ELECT	100MF	20%	16V
C131	1-123-333-00	ELECT	100MF	20%	16V
C132	1-123-333-00	ELECT	100MF	20%	16V
C133	1-123-333-00	ELECT	100MF	20%	16V
C134	1-123-333-00	ELECT	100MF	20%	16V
C135	1-101-006-00	CERAMIC	0.047MF		50V
C136	1-101-006-00	CERAMIC	0.047MF		50V
C137	1-101-006-00	CERAMIC	0.047MF		50V
C138	1-101-006-00	CERAMIC	0.047MF		50V
C139	1-101-006-00	CERAMIC	0.047MF		50V
C140	1-101-006-00	CERAMIC	0.047MF		50V
C141	1-101-006-00	CERAMIC	0.047MF		50V
C142	1-101-006-00	CERAMIC	0.047MF		50V
C143	1-101-006-00	CERAMIC	0.047MF		50V
C144	1-101-006-00	CERAMIC	0.047MF		50V
C145	1-101-006-00	CERAMIC	0.047MF		50V

Ref.No.	Part No.	Descrition			Remark
C146	1-101-006-00	CERAMIC	0.047MF		50V
C147	1-101-006-00	CERAMIC	0.047MF		50V
C148	1-101-006-00	CERAMIC	0.047MF		50V
C149	1-101-006-00	CERAMIC	0.047MF		50V
C151	1-101-006-00	CERAMIC	0.047MF		50V
C152	1-101-006-00	CERAMIC	0.047MF		50V
C153	1-101-006-00	CERAMIC	0.047MF		50V
C154	1-101-006-00	CERAMIC	0.047MF		50V
C155	1-101-006-00	CERAMIC	0.047MF		50V
C156	1-123-321-00	ELECT	220MF	20%	16V
C157	1-123-356-00	ELECT	10MF	20%	16V
C160	1-101-006-00	CERAMIC	0.047MF		50V
C161	1-101-006-00	CERAMIC	0.047MF		50V
C501	1-108-389-00	MYLAR	0.1MF	10%	100V
C502	1-102-074-00	CERAMIC	0.001MF	10%	50V
C503	1-108-389-00	MYLAR	0.1MF	10%	100V
C504	1-123-381-00	ELECT	2.2MF	20%	50V
C505	1-123-356-00	ELECT	10MF	20%	16V
C506	1-130-457-00	FILM	0.1MF	5%	100V
C507	1-108-381-00	MYLAR	0.022MF	10%	100V
C508	1-108-385-00	MYLAR	0.047MF	10%	100V
C510	1-108-383-00	MYLAR	0.033MF	10%	100V
C511	1-108-373-00	MYLAR	0.0047MF	10%	100V
C512	1-123-380-00	ELECT	1MF	20%	50V
C513	1-123-381-00	ELECT	2.2MF	20%	50V
C514	1-108-381-00	MYLAR	0.022MF	10%	100V
C515	1-108-381-00	MYLAR	0.022MF	10%	100V
C516	1-102-114-00	CERAMIC	470PF	10%	50V
C517	1-123-369-00	ELECT	4.7MF	20%	50V
C518	1-123-332-00	ELECT	47MF	20%	16V
C519	1-106-196-00	MYLAR	0.01MF	5%	100V
C520	1-129-701-00	FILM	0.01MF	5%	100V
C521	1-108-365-00	MYLAR	0.001MF	10%	100V
C522	1-102-983-00	CERAMIC	220PF	10%	50V
C524	1-101-004-00	CERAMIC	0.01MF		50V
C525	1-101-004-00	CERAMIC	0.01MF		50V
C526	1-101-004-00	CERAMIC	0.01MF		50V
C527	1-101-004-00	CERAMIC	0.01MF		50V
C528	1-123-379-00	ELECT	0.47MF	20%	50V
C531	1-108-381-00	MYLAR	0.022MF	10%	100V
C538	1-121-806-00	ELECT	10MF	20%	16V
C539	1-121-806-00	ELECT	10MF	20%	16V
C540	1-121-806-00	ELECT	10MF	20%	16V
C541	1-101-004-00	CERAMIC	0.01MF		50V
C542	1-101-004-00	CERAMIC	0.01MF		50V
C543	1-101-004-00	CERAMIC	0.01MF		50V
C544	1-102-529-00	CERAMIC	100PF	5%	50V
C545	1-102-529-00	CERAMIC	100PF	5%	50V
C546	1-108-385-00	MYLAR	0.047MF	10%	100V
C547	1-123-356-00	ELECT	10MF	20%	16V
C548	1-121-806-00	ELECT	10MF	20%	16V
C550	1-102-529-00	CERAMIC	100PF	5%	50V
C551	1-106-196-00	MYLAR	0.01MF	5%	100V

Ref.No.	Part No.	Description			Remark
C553	1-101-003-00	CERAMIC	0.0047MF		50V
C555	1-101-003-00	CERAMIC	0.0047MF		50V
C556	1-123-333-00	ELECT	100MF	20%	16V
C557	1-108-383-00	MYLAR	0.033MF	10%	100V
C558	1-101-006-00	CERAMIC	0.047MF		50V
C560	1-102-816-00	CERAMIC	120PF	5%	50V
C584	1-101-003-00	CERAMIC	0.0047MF		50V
C117A	1-101-003-00	CERAMIC	0.0047MF		50V

DIODE

D51	8-719-911-19	DIODE 1SS119
D52	8-719-911-19	DIODE 1SS119
D53	8-719-911-19	DIODE 1SS119
D54	8-719-911-19	DIODE 1SS119
D55	8-719-911-19	DIODE 1SS119
D56	8-719-911-19	DIODE 1SS119
D57	8-719-911-19	DIODE 1SS119
D58	8-719-911-19	DIODE 1SS119
D59	8-719-911-19	DIODE 1SS119
D60	8-719-911-19	DIODE 1SS119
D61	8-719-911-19	DIODE 1SS119
D62	8-719-911-19	DIODE 1SS119
D63	8-719-911-19	DIODE 1SS119
D64	8-719-911-19	DIODE 1SS119
D65	8-719-911-19	DIODE 1SS119
D66	8-719-911-19	DIODE 1SS119
D69	8-719-911-19	DIODE 1SS119
D501	8-719-911-19	DIODE 1SS119
D502	8-719-911-19	DIODE 1SS119
D503	8-719-911-19	DIODE 1SS119
D504	8-719-911-19	DIODE 1SS119
D505	8-719-911-19	DIODE 1SS119
D506	8-719-911-19	DIODE 1SS119
D507	8-719-911-19	DIODE 1SS119
D510	8-719-911-19	DIODE 1SS119
D511	8-719-422-21	DIODE 1T22AM
D512	8-719-422-21	DIODE 1T22AM
D513	8-719-911-19	DIODE 1SS119
D514	8-719-911-19	DIODE 1SS119
D515	8-719-911-19	DIODE 1SS119

IC

Ref.No.	Part No.	Description	Remark
IC51	8-759-240-24	IC TC4024BP	
IC52	8-759-240-11	IC TC4011BP	
IC53	8-759-240-11	IC TC4011BP	
IC54	8-759-240-23	IC TC4023BP	
IC55	8-759-240-11	IC TC4011BP	
IC56	8-759-240-01	IC TC4001BP	
IC57	8-759-245-20	IC TC4520BP	
IC58	8-759-240-11	IC TC4011BP	
IC59	8-759-240-11	IC TC4011BP	
IC60	8-759-240-11	IC TC4011BP	
IC61	8-759-240-11	IC TC4011BP	
IC62	8-759-345-38	IC HD14538BP	
IC63	8-759-345-38	IC HD14538BP	
IC64	8-759-345-38	IC HD14538BP	
IC65	8-759-345-38	IC HD14538BP	
IC66	8-751-300-00	IC CX130	
IC67	8-751-300-00	IC CX130	
IC68	8-759-145-58	IC UPC4558C	
IC501	8-759-145-58	IC UPC4558C	
IC502	8-759-145-58	IC UPC4558C	
IC503	8-759-145-58	IC UPC4558C	
IC504	8-751-580-00	IC CX158	
IC505	8-759-245-28	IC TC4528BP	

COIL

L53	1-408-226-00	MICRO INDUCTOR 82UH
L501	1-408-237-00	MICRO INDUCTOR 3.3MMH
L502	1-408-247-00	MICRO INDUCTOR 33MMH

TRANSISTOR

Q51	8-729-603-50	TRANSISTOR 2SC403SP
Q52	8-729-603-50	TRANSISTOR 2SC403SP
Q53	8-729-603-50	TRANSISTOR 2SC403SP
Q54	8-729-603-50	TRANSISTOR 2SC403SP
Q55	8-729-603-50	TRANSISTOR 2SC403SP
Q56	8-729-603-50	TRANSISTOR 2SC403SP
Q57	8-729-603-50	TRANSISTOR 2SC403SP
Q58	8-729-603-50	TRANSISTOR 2SC403SP
Q59	8-729-603-50	TRANSISTOR 2SC403SP
Q60	8-729-603-50	TRANSISTOR 2SC403SP
Q61	8-729-603-50	TRANSISTOR 2SC403SP
Q62	8-729-384-48	TRANSISTOR 2SA844
Q63	8-729-603-50	TRANSISTOR 2SC403SP
Q64	8-729-384-48	TRANSISTOR 2SA844
Q65	8-729-603-50	TRANSISTOR 2SC403SP
Q66	8-729-603-50	TRANSISTOR 2SC403SP
Q67	8-729-603-50	TRANSISTOR 2SC403SP
Q68	8-729-603-50	TRANSISTOR 2SC403SP
Q69	8-729-603-50	TRANSISTOR 2SC403SP
Q70	8-729-384-48	TRANSISTOR 2SA844
Q71	8-729-384-48	TRANSISTOR 2SA844
Q72	8-729-384-48	TRANSISTOR 2SA844
Q73	8-729-603-50	TRANSISTOR 2SC403SP
Q74	8-729-603-50	TRANSISTOR 2SC403SP
Q75	8-729-603-50	TRANSISTOR 2SC403SP
Q76	8-729-384-48	TRANSISTOR 2SA844
Q78	8-729-384-48	TRANSISTOR 2SA844
Q79	8-729-384-48	TRANSISTOR 2SA844
Q80	8-729-603-50	TRANSISTOR 2SC403SP
Q81	8-729-603-50	TRANSISTOR 2SC403SP
Q83	8-729-384-48	TRANSISTOR 2SA844
Q84	8-729-384-48	TRANSISTOR 2SA844
Q86	8-729-603-50	TRANSISTOR 2SC403SP
Q87	8-729-603-50	TRANSISTOR 2SC403SP

Ref.No.	Part No.	Description				Remark
Q501	8-729-117-54	TRANSISTOR 2SA1175				
Q502	8-729-117-54	TRANSISTOR 2SA1175				
Q503	8-729-178-54	TRANSISTOR 2SC2785				
Q504	8-729-178-54	TRANSISTOR 2SC2785				
Q505	8-729-178-54	TRANSISTOR 2SC2785				
Q506	8-729-178-54	TRANSISTOR 2SC2785				
Q507	8-729-178-54	TRANSISTOR 2SC2785				
Q508	8-729-178-54	TRANSISTOR 2SC2785				
Q509	8-729-178-54	TRANSISTOR 2SC2785				
Q510	8-729-178-54	TRANSISTOR 2SC2785				
Q511	8-729-178-54	TRANSISTOR 2SC2785				
Q512	8-729-178-54	TRANSISTOR 2SC2785				
Q513	8-729-178-54	TRANSISTOR 2SC2785				
Q514	8-729-178-54	TRANSISTOR 2SC2785				
Q515	8-729-178-54	TRANSISTOR 2SC2785				
Q516	8-729-117-54	TRANSISTOR 2SA1175				
Q518	8-729-178-54	TRANSISTOR 2SC2785				
Q519	8-729-178-54	TRANSISTOR 2SC2785				
Q520	8-729-117-54	TRANSISTOR 2SA1175				
Q521	8-729-178-54	TRANSISTOR 2SC2785				
Q522	8-729-178-54	TRANSISTOR 2SC2785				
Q523	8-729-178-54	TRANSISTOR 2SC2785				
Q524	8-729-117-54	TRANSISTOR 2SA1175				
		RESISTOR				
R51	1-246-497-00	CARBON	10K	5%	1/4W	
R52	1-246-517-00	CARBON	68K	5%	1/4W	
R53	1-246-473-00	CARBON	1K	5%	1/4W	
R54	1-246-507-00	CARBON	27K	5%	1/4W	
R55	1-246-489-00	CARBON	4.7K	5%	1/4W	
R56	1-246-449-00	CARBON	100	5%	1/4W	
R57	1-246-491-00	CARBON	5.6K	5%	1/4W	
R58	1-246-479-00	CARBON	1.8K	5%	1/4W	
R59	1-246-491-00	CARBON	5.6K	5%	1/4W	
R60	1-246-497-00	CARBON	10K	5%	1/4W	
R61	1-246-517-00	CARBON	68K	5%	1/4W	
R62	1-246-473-00	CARBON	1K	5%	1/4W	
R63	1-246-507-00	CARBON	27K	5%	1/4W	
R64	1-246-489-00	CARBON	4.7K	5%	1/4W	
R65	1-246-449-00	CARBON	100	5%	1/4W	
R66	1-246-479-00	CARBON	1.8K	5%	1/4W	
R67	1-246-505-00	CARBON	22K	5%	1/4W	
R68	1-246-503-00	CARBON	18K	5%	1/4W	
R69	1-246-471-00	CARBON	820	5%	1/4W	
R70	1-246-497-00	CARBON	10K	5%	1/4W	
R71	1-246-517-00	CARBON	68K	5%	1/4W	
R72	1-246-473-00	CARBON	1K	5%	1/4W	
R73	1-246-507-00	CARBON	27K	5%	1/4W	
R74	1-246-489-00	CARBON	4.7K	5%	1/4W	
R75	1-246-449-00	CARBON	100	5%	1/4W	
R76	1-246-449-00	CARBON	100	5%	1/4W	
R77	1-246-481-00	CARBON	2.2K	5%	1/4W	
R78	1-246-449-00	CARBON	100	5%	1/4W	

Ref.No.	Part No.	Descrition				Remark
R79	1-246-505-00	CARBON	22K	5%	1/4W	
R80	1-246-513-00	CARBON	47K	5%	1/4W	
R81	1-246-530-00	CARBON	240K	5%	1/4W	
R82	1-246-497-00	CARBON	10K	5%	1/4W	
R83	1-246-457-00	CARBON	220	5%	1/4W	
R84	1-246-493-00	CARBON	6.8K	5%	1/4W	
R85	1-246-493-00	CARBON	6.8K	5%	1/4W	
R86	1-246-493-00	CARBON	6.8K	5%	1/4W	
R87	1-246-503-00	CARBON	18K	5%	1/4W	
R88	1-246-505-00	CARBON	22K	5%	1/4W	
R89	1-246-481-00	CARBON	2.2K	5%	1/4W	
R90	1-246-515-00	CARBON	56K	5%	1/4W	
R91	1-246-491-00	CARBON	5.6K	5%	1/4W	
R92	1-246-481-00	CARBON	2.2K	5%	1/4W	
R93	1-246-503-00	CARBON	18K	5%	1/4W	
R94	1-246-505-00	CARBON	22K	5%	1/4W	
R95	1-246-449-00	CARBON	100	5%	1/4W	
R96	1-246-441-00	CARBON	47	5%	1/4W	
R97	1-246-507-00	CARBON	27K	5%	1/4W	
R98	1-246-497-00	CARBON	10K	5%	1/4W	
R99	1-246-473-00	CARBON	1K	5%	1/4W	
R100	1-214-149-00	METAL	5.1K	1%	1/4W	
R101	1-214-149-00	METAL	5.1K	1%	1/4W	
R102	1-246-489-00	CARBON	4.7K	5%	1/4W	
R103	1-246-483-00	CARBON	2.7K	5%	1/4W	
R104	1-246-501-00	CARBON	15K	5%	1/4W	
R105	1-246-473-00	CARBON	1K	5%	1/4W	
R106	1-246-501-00	CARBON	15K	5%	1/4W	
R107	1-246-458-00	CARBON	240	5%	1/4W	
R108	1-246-425-00	CARBON	10	5%	1/4W	
R109	1-246-460-00	CARBON	300	5%	1/4W	
R110	1-246-473-00	CARBON	1K	5%	1/4W	
R111	1-246-531-00	CARBON	270K	5%	1/4W	
R112	1-246-531-00	CARBON	270K	5%	1/4W	
R113	1-246-497-00	CARBON	10K	5%	1/4W	
R114	1-246-489-00	CARBON	4.7K	5%	1/4W	
R115	1-246-462-00	CARBON	360	5%	1/4W	
R116	1-246-473-00	CARBON	1K	5%	1/4W	
R117	1-246-467-00	CARBON	560	5%	1/4W	
R118	1-246-477-00	CARBON	1.5K	5%	1/4W	
R119	1-246-490-00	CARBON	5.1K	5%	1/4W	
R120	1-246-501-00	CARBON	15K	5%	1/4W	
R121	1-246-483-00	CARBON	2.7K	5%	1/4W	
R122	1-246-507-00	CARBON	27K	5%	1/4W	
R123	1-246-539-00	CARBON	560K	5%	1/4W	
R124	1-246-516-00	CARBON	62K	5%	1/4W	
R125	1-246-483-00	CARBON	2.7K	5%	1/4W	
R126	1-246-469-00	CARBON	680	5%	1/4W	
R127	1-246-497-00	CARBON	10K	5%	1/4W	
R128	1-246-512-00	CARBON	43K	5%	1/4W	
R129	1-246-485-00	CARBON	3.3K	5%	1/4W	
R130	1-246-505-00	CARBON	22K	5%	1/4W	
R131	1-214-156-00	METAL	10K	1%	1/4W	

Ref.No.	Part No.	Description				Remark
R132	1-214-145-00	METAL	3.6K	1%	1/4W	
R133	1-214-151-00	METAL	6.2K	1%	1/4W	
R134	1-214-155-00	METAL	9.1K	1%	1/4W	
R135	1-246-497-00	CARBON	10K	5%	1/4W	
R136	1-214-173-00	METAL	51K	1%	1/4W	
R137	1-246-497-00	CARBON	10K	5%	1/4W	
R138	1-246-497-00	CARBON	10K	5%	1/4W	
R139	1-246-516-00	CARBON	62K	5%	1/4W	
R140	1-246-493-00	CARBON	6.8K	5%	1/4W	
R143	1-246-497-00	CARBON	10K	5%	1/4W	
R144	1-246-497-00	CARBON	10K	5%	1/4W	
R145	1-246-516-00	CARBON	62K	5%	1/4W	
R146	1-246-521-00	CARBON	100K	5%	1/4W	
R147	1-246-509-00	CARBON	33K	5%	1/4W	
R148	1-246-505-00	CARBON	22K	5%	1/4W	
R149	1-246-505-00	CARBON	22K	5%	1/4W	
R150	1-246-509-00	CARBON	33K	5%	1/4W	
R151	1-246-501-00	CARBON	15K	5%	1/4W	
R154	1-246-497-00	CARBON	10K	5%	1/4W	
R155	1-246-497-00	CARBON	10K	5%	1/4W	
R156	1-246-517-00	CARBON	68K	5%	1/4W	
R157	1-246-497-00	CARBON	10K	5%	1/4W	
R158	1-246-505-00	CARBON	22K	5%	1/4W	
R159	1-246-497-00	CARBON	10K	5%	1/4W	
R160	1-246-505-00	CARBON	22K	5%	1/4W	
R161	1-246-497-00	CARBON	10K	5%	1/4W	
R162	1-246-497-00	CARBON	10K	5%	1/4W	
R163	1-246-497-00	CARBON	10K	5%	1/4W	
R164	1-246-505-00	CARBON	22K	5%	1/4W	
R165	1-246-497-00	CARBON	10K	5%	1/4W	
R166	1-214-177-00	METAL	75K	1%	1/4W	
R167	1-246-497-00	CARBON	10K	5%	1/4W	
R168	1-246-505-00	CARBON	22K	5%	1/4W	
R169	1-246-497-00	CARBON	10K	5%	1/4W	
R170	1-246-515-00	CARBON	56K	5%	1/4W	
R171	1-246-508-00	CARBON	30K	5%	1/4W	
R172	1-246-505-00	CARBON	22K	5%	1/4W	
R173	1-246-497-00	CARBON	10K	5%	1/4W	
R178	1-246-485-00	CARBON	3.3K	5%	1/4W	
R179	1-246-505-00	CARBON	22K	5%	1/4W	
R182	1-246-531-00	CARBON	270K	5%	1/4W	
R183	1-246-497-00	CARBON	10K	5%	1/4W	
R184	1-246-505-00	CARBON	22K	5%	1/4W	
R185	1-246-497-00	CARBON	10K	5%	1/4W	
R187	1-246-505-00	CARBON	22K	5%	1/4W	
R189	1-246-521-00	CARBON	100K	5%	1/4W	
R190	1-246-505-00	CARBON	22K	5%	1/4W	
R192	1-246-505-00	CARBON	22K	5%	1/4W	
R195	1-246-505-00	CARBON	22K	5%	1/4W	
R196	1-246-505-00	CARBON	22K	5%	1/4W	
R197	1-246-497-00	CARBON	10K	5%	1/4W	
R198	1-246-521-00	CARBON	100K	5%	1/4W	
R199	1-246-505-00	CARBON	22K	5%	1/4W	

Ref.No.	Part No.	Descrition				Remark
R200	1-246-497-00	CARBON	10K	5%	1/4W	
R201	1-246-505-00	CARBON	22K	5%	1/4W	
R202	1-246-497-00	CARBON	10K	5%	1/4W	
R203	1-246-497-00	CARBON	10K	5%	1/4W	
R204	1-246-505-00	CARBON	22K	5%	1/4W	
R205	1-246-497-00	CARBON	10K	5%	1/4W	
R206	1-246-505-00	CARBON	22K	5%	1/4W	
R207	1-246-497-00	CARBON	10K	5%	1/4W	
R208	1-246-505-00	CARBON	22K	5%	1/4W	
R209	1-246-497-00	CARBON	10K	5%	1/4W	
R210	1-246-497-00	CARBON	10K	5%	1/4W	
R211	1-246-497-00	CARBON	10K	5%	1/4W	
R212	1-246-505-00	CARBON	22K	5%	1/4W	
R213	1-246-497-00	CARBON	10K	5%	1/4W	
R214	1-246-497-00	CARBON	10K	5%	1/4W	
R215	1-246-505-00	CARBON	22K	5%	1/4W	
R216	1-246-497-00	CARBON	10K	5%	1/4W	
R217	1-246-497-00	CARBON	10K	5%	1/4W	
R218	1-246-505-00	CARBON	22K	5%	1/4W	
R219	1-246-497-00	CARBON	10K	5%	1/4W	
R221	1-246-497-00	CARBON	10K	5%	1/4W	
R222	1-246-497-00	CARBON	10K	5%	1/4W	
R223	1-246-497-00	CARBON	10K	5%	1/4W	
R224	1-246-497-00	CARBON	10K	5%	1/4W	
R225	1-246-485-00	CARBON	3.3K	5%	1/4W	
R226	1-246-505-00	CARBON	22K	5%	1/4W	
R227	1-246-511-00	CARBON	39K	5%	1/4W	
R228	1-246-513-00	CARBON	47K	5%	1/4W	
R229	1-246-507-00	CARBON	27K	5%	1/4W	
R230	1-246-529-00	CARBON	220K	5%	1/4W	
R231	1-246-537-00	CARBON	470K	5%	1/4W	
R233	1-246-497-00	CARBON	10K	5%	1/4W	
R234	1-246-516-00	CARBON	62K	5%	1/4W	
R235	1-246-515-00	CARBON	56K	5%	1/4W	
R236	1-246-499-00	CARBON	12K	5%	1/4W	
R237	1-246-507-00	CARBON	27K	5%	1/4W	
R501	1-246-491-00	CARBON	5.6K	5%	1/4W	
R502	1-246-501-00	CARBON	15K	5%	1/4W	
R503	1-246-505-00	CARBON	22K	5%	1/4W	
R504	1-246-491-00	CARBON	5.6K	5%	1/4W	
R505	1-246-491-00	CARBON	5.6K	5%	1/4W	
R506	1-246-505-00	CARBON	22K	5%	1/4W	
R507	1-246-507-00	CARBON	27K	5%	1/4W	
R508	1-246-513-00	CARBON	47K	5%	1/4W	
R509	1-202-463-00	COMPOSITION	2.2M	5%	1/4W	
R510	1-246-521-00	CARBON	100K	5%	1/4W	
R511	1-202-463-00	COMPOSITION	2.2M	5%	1/4W	
R512	1-246-520-00	CARBON	91K	5%	1/4W	
R513	1-246-457-00	CARBON	220	5%	1/4W	
R514	1-246-497-00	CARBON	10K	5%	1/4W	
R515	1-246-537-00	CARBON	470K	5%	1/4W	
R516	1-246-497-00	CARBON	10K	5%	1/4W	
R517	1-246-513-00	CARBON	47K	5%	1/4W	

Ref.No.	Part No.	Description				Remark
R518	1-246-533-00	CARBON	330K	5%	1/4W	
R519	1-246-511-00	CARBON	39K	5%	1/4W	
R520	1-246-482-00	CARBON	2.4K	5%	1/4W	
R521	1-246-505-00	CARBON	22K	5%	1/4W	
R522	1-246-513-00	CARBON	47K	5%	1/4W	
R523	1-246-521-00	CARBON	100K	5%	1/4W	
R524	1-246-449-00	CARBON	100	5%	1/4W	
R525	1-246-497-00	CARBON	10K	5%	1/4W	
R526	1-246-537-00	CARBON	470K	5%	1/4W	
R527	1-246-495-00	CARBON	8.2K	5%	1/4W	
R528	1-246-479-00	CARBON	1.8K	5%	1/4W	
R529	1-246-492-00	CARBON	6.2K	5%	1/4W	
R530	1-246-501-00	CARBON	15K	5%	1/4W	
R531	1-246-490-00	CARBON	5.1K	5%	1/4W	
R532	1-246-460-00	CARBON	300	5%	1/4W	
R533	1-246-509-00	CARBON	33K	5%	1/4W	
R534	1-246-489-00	CARBON	4.7K	5%	1/4W	
R535	1-246-497-00	CARBON	10K	5%	1/4W	
R536	1-246-521-00	CARBON	100K	5%	1/4W	
R537	1-246-513-00	CARBON	47K	5%	1/4W	
R538	1-246-513-00	CARBON	47K	5%	1/4W	
R539	1-246-473-00	CARBON	1K	5%	1/4W	
R540	1-246-507-00	CARBON	27K	5%	1/4W	
R541	1-246-475-00	CARBON	1.2K	5%	1/4W	
R542	1-246-495-00	CARBON	8.2K	5%	1/4W	
R543	1-246-513-00	CARBON	47K	5%	1/4W	
R544	1-246-513-00	CARBON	47K	5%	1/4W	
R545	1-246-505-00	CARBON	22K	5%	1/4W	
R546	1-246-513-00	CARBON	47K	5%	1/4W	
R547	1-246-513-00	CARBON	47K	5%	1/4W	
R548	1-202-463-00	COMPOSITION	2.2M	5%	1/4W	
R549	1-246-513-00	CARBON	47K	5%	1/4W	
R550	1-246-513-00	CARBON	47K	5%	1/4W	
R551	1-246-525-00	CARBON	150K	5%	1/4W	
R552	1-246-518-00	CARBON	75K	5%	1/4W	
R554	1-246-477-00	CARBON	1.5K	5%	1/4W	
R555	1-246-473-00	CARBON	1K	5%	1/4W	
R556	1-246-477-00	CARBON	1.5K	5%	1/4W	
R557	1-246-513-00	CARBON	47K	5%	1/4W	
R558	1-246-513-00	CARBON	47K	5%	1/4W	
R559	1-246-513-00	CARBON	47K	5%	1/4W	
R560	1-246-491-00	CARBON	5.6K	5%	1/4W	
R561	1-246-485-00	CARBON	3.3K	5%	1/4W	
R562	1-246-477-00	CARBON	1.5K	5%	1/4W	
R563	1-246-506-00	CARBON	24K	5%	1/4W	
R564	1-246-493-00	CARBON	6.8K	5%	1/4W	
R565	1-246-496-00	CARBON	9.1K	5%	1/4W	
R566	1-246-485-00	CARBON	3.3K	5%	1/4W	
R567	1-246-479-00	CARBON	1.8K	5%	1/4W	
R568	1-246-486-00	CARBON	3.6K	5%	1/4W	
R569	1-246-439-00	CARBON	39	5%	1/4W	
R570	1-246-473-00	CARBON	1K	5%	1/4W	
R571	1-246-490-00	CARBON	5.1K	5%	1/4W	

Ref.No.	Part No.	Descrition				Remark
R572	1-246-529-00	CARBON	220K	5%	1/4W	
R573	1-246-521-00	CARBON	100K	5%	1/4W	
R574	1-246-481-00	CARBON	2.2K	5%	1/4W	
R575	1-246-481-00	CARBON	2.2K	5%	1/4W	
R576	1-246-521-00	CARBON	100K	5%	1/4W	
R577	1-246-497-00	CARBON	10K	5%	1/4W	
R578	1-246-523-00	CARBON	120K	5%	1/4W	
R579	1-246-518-00	CARBON	75K	5%	1/4W	
R580	1-246-473-00	CARBON	1K	5%	1/4W	
R581	1-246-457-00	CARBON	220	5%	1/4W	
R582	1-246-457-00	CARBON	220	5%	1/4W	
R583	1-246-490-00	CARBON	5.1K	5%	1/4W	
R584	1-246-505-00	CARBON	22K	5%	1/4W	
R585	1-246-497-00	CARBON	10K	5%	1/4W	
R586	1-246-512-00	CARBON	43K	5%	1/4W	
R587	1-246-505-00	CARBON	22K	5%	1/4W	
R588	1-246-501-00	CARBON	15K	5%	1/4W	
R589	1-246-513-00	CARBON	47K	5%	1/4W	
R590	1-246-525-00	CARBON	150K	5%	1/4W	
R591	1-246-505-00	CARBON	22K	5%	1/4W	
R592	1-246-497-00	CARBON	10K	5%	1/4W	
R593	1-246-493-00	CARBON	6.8K	5%	1/4W	
R595	1-246-521-00	CARBON	100K	5%	1/4W	
R596	1-246-497-00	CARBON	10K	5%	1/4W	
R597	1-246-487-00	CARBON	3.9K	5%	1/4W	
R598	1-246-481-00	CARBON	2.2K	5%	1/4W	
R599	1-246-481-00	CARBON	2.2K	5%	1/4W	

VARIABLE RESISTOR

Ref.No.	Part No.	Descrition
RV51	1-224-647-XX	RES, ADJ, CARBON 47K
RV52	1-226-774-00	RES, ADJ, METAL GLAZE 47K
RV501	1-224-646-XX	RES, ADJ, CARBON 22K
RV502	1-224-646-XX	RES, ADJ, CARBON 22K
RV503	1-226-819-00	RES, ADJ, CARBON 1K
RV504	1-224-641-XX	RES, ADJ, CARBON 470
RV505	1-224-640-XX	RES, ADJ, CARBON 330
RV506	1-224-646-XX	RES, ADJ, CARBON 22K
RV507	1-224-645-XX	RES, ADJ, CARBON 10K
RV508	1-222-784-00	RES, ADJ, CARBON 3.3K
RV509	1-224-643-XX	RES, ADJ, CARBON 2.2K
RV510	1-222-784-00	RES, ADJ, CARBON 3.3K
RV511	1-224-646-XX	RES, ADJ, CARBON 22K
RV512	1-224-646-XX	RES, ADJ, CARBON 22K
RV513	1-224-646-XX	RES, ADJ, CARBON 22K
RV514	1-224-647-XX	RES, ADJ, CARBON 47K
RV515	1-224-644-XX	RES, ADJ, CARBON 4.7K
RV517	1-224-640-XX	RES, ADJ, CARBON 330
RV518	1-224-645-XX	RES, ADJ, CARBON 10K
RV519	1-226-773-00	RES, ADJ, METAL GLAZE 22K
RV520	1-226-773-00	RES, ADJ, METAL GLAZE 22K

Ref.No.	Part No.	Description	Remark

THERMISTOR

Ref.No.	Part No.	Description
TH501	1-800-070-XX	THERMISTOR TH-4700
TH503	1-800-202-XX	THERMISTOR S-10K
TH504	1-800-202-XX	THERMISTOR S-10K

CONNECTOR

Ref.No.	Part No.	Description
V1	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
V2	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P
V3	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
V4	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
V5	♠:1-508-742-00	PIN, CONNECTOR 3P
V6	♠:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P
V7	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
V8	♠:1-560-127-00	PLUG, CONNECTOR (2.5MM) 7P
V9	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
V10	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P
V11	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
V12	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
V13	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
V14	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
V16	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P

* * *

♠:1-604-879-00 HA BOARD

CAPACITOR

Ref.No.	Part No.	Description			
C31	1-102-125-00	CERAMIC	0.0047MF	10%	50V

DIODE

Ref.No.	Part No.	Description
D31	8-719-911-19	DIODE 1SS119
D32	8-719-911-19	DIODE 1SS119
D33	8-719-911-19	DIODE 1SS119
D34	8-719-911-19	DIODE 1SS119
D35	8-719-911-19	DIODE 1SS119
D36	8-719-911-19	DIODE 1SS119
D38	8-719-911-19	DIODE 1SS119

CONNECTOR

Ref.No.	Part No.	Description
HA1	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
HA2	♠:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)
HA3	♠:1-560-224-00	PLUG, CONNECTOR (2.5MM) 10P
HA4	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P
HA5	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
HA6	♠:1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)

IC

Ref.No.	Part No.	Description
IC31	8-759-240-01	IC TC4001BP

TRANSISTOR

Ref.No.	Part No.	Description
Q31	8-729-178-54	TRANSISTOR 2SC2785

Ref.No.	Part No.	Descrition	Remark

RESISTOR

Ref.No.	Part No.	Descrition			
R31	1-246-509-00	CARBON	33K	5%	1/4W
R33	1-246-509-00	CARBON	33K	5%	1/4W
R35	1-246-509-00	CARBON	33K	5%	1/4W
R37	1-246-509-00	CARBON	33K	5%	1/4W
R39	1-246-509-00	CARBON	33K	5%	1/4W
R41	1-246-509-00	CARBON	33K	5%	1/4W
R43	1-246-509-00	CARBON	33K	5%	1/4W
R44	1-246-509-00	CARBON	33K	5%	1/4W
R46	1-246-509-00	CARBON	33K	5%	1/4W
R47	1-246-509-00	CARBON	33K	5%	1/4W
R48	1-246-509-00	CARBON	33K	5%	1/4W
R49	1-246-477-00	CARBON	1.5K	5%	1/4W
R50	1-246-497-00	CARBON	10K	5%	1/4W
R51	1-246-497-00	CARBON	10K	5%	1/4W
R52	1-246-497-00	CARBON	10K	5%	1/4W

SWITCH

Ref.No.	Part No.	Descrition
S31	1-552-267-00	SWITCH, LEVER SLIDE
S32	1-553-582-00	SWITCH, LEVER SLIDE
S33	1-552-267-00	SWITCH, LEVER SLIDE

* * *

♠:1-604-889-00 HC BOARD

DIODE

Ref.No.	Part No.	Descrition
D11	8-719-911-19	DIODE 1SS119
D12	8-719-911-19	DIODE 1SS119
D13	8-719-911-19	DIODE 1SS119

RESISTOR

Ref.No.	Part No.	Descrition			
R11	1-246-473-00	CARBON	1K	5%	1/4W
R12	1-246-473-00	CARBON	1K	5%	1/4W
R13	1-246-477-00	CARBON	1.5K	5%	1/4W
R15	1-246-473-00	CARBON	1K	5%	1/4W

VARIABLE RESISTOR

Ref.No.	Part No.	Descrition
RV11	1-224-917-00	RES, ADJ, METAL FILM 1K
RV12	1-224-919-00	RES, ADJ, METAL FILM 5K
RV13	1-224-917-00	RES, ADJ, METAL FILM 1K
RV14	1-224-919-00	RES, ADJ, METAL FILM 5K
RV15	1-224-917-00	RES, ADJ, METAL FILM 1K
RV16	1-224-919-00	RES, ADJ, METAL FILM 5K
RV17	1-224-919-00	RES, ADJ, METAL FILM 5K
RV18	1-224-919-00	RES, ADJ, METAL FILM 5K

SWITCH

Ref.No.	Part No.	Descrition
S11	1-552-898-00	SWITCH, TOGGLE
S12	1-552-898-00	SWITCH, TOGGLE
S13	1-552-898-00	SWITCH, TOGGLE
S14	1-552-898-00	SWITCH, TOGGLE

Ref.No.	Part No.	Description	Remark
	♦ :1-604-880-12	HB BOARD	

****

CAPACITOR

Ref.No.	Part No.	Description	Remark
C32	1-123-333-00	ELECT 100MF 20% 16V	
C33	1-123-318-00	ELECT 33MF 20% 16V	

DIODE

Ref.No.	Part No.	Description	Remark
D37	8-719-911-19	DIODE 1SS119	

CONNECTOR

Ref.No.	Part No.	Description	Remark
HB1	♦ :1-508-734-00	PIN, CONNECTOR 3P	
HB2	♦ :1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P	
HB3	♦ :1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q32	8-729-178-54	TRANSISTOR 2SC2785	
Q33	8-729-178-54	TRANSISTOR 2SC2785	

RESISTOR

Ref.No.	Part No.	Description	Remark
R49	1-246-509-00	CARBON 33K 5% 1/4W	
R53	1-246-497-00	CARBON 10K 5% 1/4W	
R54	1-246-507-00	CARBON 27K 5% 1/4W	
R55	1-246-511-00	CARBON 39K 5% 1/4W	
R56	1-246-473-00	CARBON 1K 5% 1/4W	
R57	1-246-453-00	CARBON 150 5% 1/4W	
R58	1-246-459-00	CARBON 270 5% 1/4W	

SWITCH

Ref.No.	Part No.	Description	Remark
S34	1-552-897-00	SWITCH, LEVER	
S35	1-552-897-00	SWITCH, LEVER	

****

Ref.No.	Part No.	Description	Remark
	♦:1-604-885-00	X BOARD	

****

Ref.No.	Part No.	Description	Remark
	♦:1-555-956-00	CONNECTOR ASSY (2.5MM) 2P	

DIODE

Ref.No.	Part No.	Description	Remark
D901	8-719-909-20	DIODE GL-9NG2	

****

Ref.No.	Part No.	Description	Remark
	♦:1-604-884-00	Z BOARD	

****

CONNECTOR

Ref.No.	Part No.	Description	Remark
FA7	♦:1-551-921-00	CONNECTOR ASSY 3P	

NEON LAMP

Ref.No.	Part No.	Description	Remark
NL901	1-519-108-XX	LAMP, NEON ASSY	
NL902	1-519-108-XX	LAMP, NEON ASSY	

MISCELLANEOUS

****

Ref.No.	Part No.	Descrition	Remark
	1-452-032-00	MAGNET, DISK	
	⚠.1-452-112-42	NECK ASSY, CRT	
	1-452-146-00	MAGNET, BMC	
	⚠.1-453-081-14	HIGH-VOLTAGE BLOCK, DC	
	1-509-718-00	DIN 4P SOCKET	
	♦ :1-509-774-00	CONNECTOR ASSY, 3P	
	♦ :1-509-804-00	3P CONNECTOR ASSY	
	♦ :1-509-823-72	CONNECTOR ASSY, MINIATURE 5P	
	1-516-777-XX	SLIDE SWITCH	
	⚠.1-534-517-23	AC CORD	
	♦ :1-551-715-00	CONNECTOR 3P	
	♦ :1-555-037-00	CONNECTOR ASSY, MINIATURE 3P	
	♦ :1-555-225-00	CONNECTOR ASSY (LARGE) 1P	
	♦ :1-555-441-00	CONNECTOR ASSY (LARGE) 3P	
	♦ :1-555-657-00	CONNECTOR ASSY 1P	
	♦ :1-555-705-00	CONNECTOR ASSY (2.5MM) 10P	
	♦ :1-555-730-00	CONNECTOR ASSY (2.5MM) 2P	
	♦ :1-555-752-00	CONNECTOR ASSY (L) 2P	
	♦ :1-555-754-00	CONNECTOR ASSY (2.5MM) 3P	
	♦ :1-555-755-00	CONNECTOR ASSY (2.5MM) 3P	
	♦ :1-555-756-00	CONNECTOR ASSY (2.5MM) 3P	
	♦ :1-555-817-00	CONNECTOR ASSY (2.5MM) 4P	
	♦ :1-555-837-00	CONNECTOR ASSY (2.5MM) 6P	
	♦ :1-555-946-00	CONNECTOR ASSY, MINIATURE 5P	
	♦ :1-555-947-00	CONNECTOR ASSY, MINIATURE 5P	
	♦ :1-555-948-00	CONNECTOR ASSY, MINIATURE 5P	
	♦ :1-555-955-00	CONNECTOR ASSY (2.5MM) 9P	
	♦ :1-555-957-00	CONNECTOR ASSY (2.5MM) 2P	
	♦ :1-555-960-00	CONNECTOR ASSY (2.5MM) 2P	
	♦ :1-555-961-00	CONNECTOR ASSY (2.5MM) 2P	
	♦ :1-555-964-00	CONNECTOR ASSY (2.5MM) 5P	
	♦ :1-555-965-00	CONNECTOR ASSY (2.5MM) 5P	
	♦ :1-555-966-00	CONNECTOR ASSY (2.5MM) 5P	
	♦ :1-555-973-00	CONNECTOR ASSY (LARGE) 4P	
	♦ :1-556-018-21	CONNECTOR ASSY (2.5MM) 3P	
	♦ :1-556-320-51	CONNECTOR ASSY (2.5MM) 7P	
	♦ :1-556-330-00	CONNECTOR ASSY (2.5MM) 3P	
	1-556-396-81	CONNECTOR ASSY (2.5MM) 5P	
	1-556-408-31	CONNECTOR ASSY (LARGE) 3P	
	♦ :1-556-411-31	CONNECTOR ASSY (2.5MM) 4P	
	♦ :1-556-651-81	CONNECTOR ASSY (2.5MM) 4P	
	♦ :1-561-046-00	CONNECTOR, 3P	
	1-561-167-00	CONNECTOR	
C901	1-130-031-00	CAP, METALIZED PP 0.22MF	
L901	⚠.1-426-086-12	COIL, DEGAUSSING	
L902	⚠.1-426-086-12	COIL, DEGAUSSING	
L903	⚠.1-451-160-32	DEFLECTION YOKE (SY-97)	
L904	⚠.1-451-160-32	DEFLECTION YOKE (SY-97)	
Q901	8-729-311-42	TRANSISTOR 2SC1114	
R901	1-205-608-00	RES, CEMENT 180	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Remark
R902	1-246-446-00	RES, CARBON 75	
R903	1-246-446-00	RES, CARBON 75	
R904	1-246-446-00	RES, CARBON 75	
R905	1-246-446-00	RES, CARBON 75	
R911	1-202-830-00	RES, SOLID 10K	
R912	1-202-830-00	RES, SOLID 10K	
RV901	1-226-687-00	RES, VAR 500	
RV902	1-224-619-00	RES, VAR, CARBON 5K	
RV903	1-222-524-00	RES, VAR, CARBON 3.0K	
RV904	1-224-027-XX	RES, VAR, CARBON 500.0	
S901	⚠.1-552-454-11	SWITCH, PUSH	
T901	⚠.1-447-391-11	TRANSFORMER, POWER	
T911	⚠.1-439-208-12	TRANSFORMER, FLYBACK	
V901	⚠.8-738-312-05	CRT (330YB22)	

* * *

ACCESSORIES AND PACKING MATERIALS

Part No.	Descrition	Remark
1-508-723-00	4P PLUG, DIN	
3-701-219-00	LABEL (B) (TYPE 6), MODEL NAME	
3-701-631-00	BAG, POLYETHYLENE	
3-703-046-00	LABEL (A), INDICATING	
3-703-163-00	LABEL, DESTINATION	
3-703-163-00	LABEL, DESTINATION	
4-309-537-00	BAG, POLYETHYLENE	
4-353-603-00	PLATE, NUMBER	
4-353-647-02	CUSHION (UPPER)	
4-353-648-03	CUSHION (LOWER)	
4-361-307-00	INDIVIDUAL CARTON	
4-491-213-22	INSTRUCTION	
4-493-713-21	MANUAL, INSTRUCTION	
7-700-731-03	DRIVER, VR ADJUSTMENT	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-963-016-02

Sony Corporation
TV Group

English
88D0508-3
Printed in Japan

© 1983.7